

MANUFACTURERS RECORD

A WEEKLY SOUTHERN INDUSTRIAL, RAILROAD AND FINANCIAL NEWSPAPER

Trade Name Registered in the U. S. Patent Office.

VOL. LXII. No. 8.
WEEKLY.

BALTIMORE, AUGUST 29, 1912.

\$4.00 A YEAR.
{ SINGLE COPIES, 15 CENTS.

Manufacturers Record

PUBLISHED EVERY THURSDAY BY THE
MANUFACTURERS RECORD PUBLISHING CO.,
BALTIMORE.

RICHARD H. EDMONDS, President.
FRANK GOULD, Vice-President.
VICTOR H. POWER, Treasurer.
I. S. FIELD, Secretary.

RICHARD H. EDMONDS,
Editor and General Manager.

EDWARD INGLE, Managing Editor.

ALBERT PHENIS,
General Staff Correspondent.

Branch Offices:

New York—52 Broadway.
Boston—643 Old South Building.
Chicago—1116 Fisher Building.
St. Louis—513 Century Building.

Subscription, - - - - - \$4 a year
(payable in advance) to United States,
Mexico, Cuba, Porto Rico, Hawaii and
the Philippines.

To Foreign Countries (including Canada) in
the Postal Union, \$6.50 a year.

[Entered at the Baltimore Postoffice as sec-
ond class matter.]

BALTIMORE, AUGUST 29, 1912.

HANDICAPS ON COMMERCE AT SOME PORTS.

A prominent business man in Virginia, attracted by the announcement made in last week's issue of the MANUFACTURERS RECORD of the establishment of a free port without wharfage charges of any kind at the mouth of the Brazos River, Tex., to be known as Freeport, suggests that pilotage charges greatly handicap some ports. The Virginia Pilot Association, he says, is the closest kind of a political association, and the charges are high, but Charleston, S. C., is still more handicapped, as the rates on a vessel going into Charleston for coal are at present double the rate at Newport News. Under present pilotage charges, according to this letter, a vessel drawing 24 feet of water entering Charleston to get 300 tons of coal would have to pay pilotage of \$222, or almost \$1 a ton on the coal which they purchase, while the coal mines are glad to get an average net profit of 10 cents a ton, and the railroads which carry the coal to Charleston can scarcely make more than one mill a ton mile profit. Southern ports which aim to develop their commerce should look into every question of port charges, including pilotage, for the port which provides the best facilities for the expeditious handling of freight and the lowest charges for pilotage fees and other things will have a tremendous advantage in comparison with all others. The establishment of a free port in Texas, backed by abundant capital, is likely to make a very lively stir in the commercial circles of the entire South. It should stimulate every port on the South Atlantic and Gulf coasts to the utmost exertion to improve its facilities and lessen the cost of ships entering their harbors.

BROAD SWEEP OF BUSINESS IMPROVEMENT.

Two letters which reached the MANUFACTURERS RECORD in the same mail, typical of the broadening spirit of optimism in the business world and indicative of the increasing business activity everywhere, have particular reference to the fact that politics will not this year be permitted to destroy prosperity. The National Iron & Steel Co. of Houston, Tex., in writing about business conditions, says:

The iron and steel market has long since been recognized as the barometer of trade. We can see in the present advancing market a very bright outlook. Lumber and other building materials will feel the effect. * * *

National politics will have no effect on business. No candidate can affect the crops. Wall Street is pinning its faith on bumper crops. Every single channel of American business feels the stimulus of good crops.

From the office of the Diamond Rubber Co., Akron, Ohio, has been issued a circular letter in which attention is called to the improvement in business conditions throughout the country. Dealing with the political situation, this letter says:

The fallacy of the Presidential year bugaboo has been proven conclusively this year. A few thin-skinned business parasites have attempted in many ways to retard our 1912 progress. They planned a year ahead for a poor season this year and spread confusion among the pessimists almost before the new year was ushered in. * * * It is a human trait to absorb business atmosphere. If you talk good times, your shafts of confidence will not only bolster up the one you are talking to, but you start an endless chain of good cheer.

Somebody must lead the weaker mass, and it is just as easy to lead them the right way by talking right as it is by turning them over to the business pessimists.

As emphasizing these points, the Diamond Rubber Co. in its letter says: "All of our departments are running day and night shifts." The activity of this company in having to run its factory day and night is indicative of the general increase that is taking place throughout the country in all business interests. Indeed, it might be said that the world is busy. Iron and steel production not only in the United States, but abroad, is now on a larger scale than ever before. Everywhere there is a growing demand for iron and steel products.

This year's crops promise in the aggregate to be the largest ever produced in the United States, and to yield a greater return to the farmers by \$500,000,000 to \$1,000,000,000 over the record income to American farmers. It is quite certain that the total value of this year's farm products of all kinds will exceed \$9,000,000,000.

It is indeed fortunate that every section of the country will share in the magnificent crops and in the splendid returns to the farmers. No part of the country has this year by reason of drouth or other natural causes been made to suffer. From the Lakes to the Gulf, from Maine to Texas, from the Atlantic to the Pacific, the crop yields, with here and there only a small exception, promise to be unusually

good, giving to the whole agricultural interests of the land a year of abounding prosperity. Railroads are already feeling the influence of threatened congestion of traffic, and are crowding to the limit of their ability the enlargement of their facilities and increase in rolling stock to meet the assurance of a heavy movement of freight. The iron and steel works are being pushed for an enlarged output, since the demand for steel is already so great that in all parts of the country building operations are being restricted by the inability to secure structural iron and reinforced concrete bars and other steel products. In Baltimore a number of big building enterprises upon which the foundation work has been done are temporarily halted because of the inability of the steel mills to turn out supplies to meet increasing orders. Contracts for great water-power developments are being let in various parts of the South, great expansions of warehouse and wharf facilities are being constructed, city building activities are in evidence everywhere. Never before has there been such a wide-sweeping movement stretching through the whole South, embracing every line of industry, and the southward trend of the great capitalistic forces of the world as can now be seen in every part of this section.

POWER DEVELOPMENT IN ALABAMA.

James Mitchell, president of the Alabama Interstate Power Co., which recently let contract for building a dam to develop about 50,000 to 60,000 horsepower on the Coosa River, wires the MANUFACTURERS RECORD that the veto of President Taft on a bill for the development of a particular power on the Coosa River will not at all interfere with the plans for the one already let to contract. "This contract," says Mr. Mitchell, "covers Lock No. 12, for which a Federal charter was granted sometime ago, and the President's action on Lock No. 18 bill will therefore have no effect on contract already made at No. 12, or on several other water-powers on unnavigable rivers."

It will be remembered that the Interstate Power Co. and its affiliated interests have a capitalization of \$55,000,000, and propose the ultimate development of about 400,000 horse-power.

FOR THE SOUTH'S UPBUILDING.

Stuart A. Howard, Lynchburg representative of the Guarantee Trust & Banking Co. of Atlanta, in a letter to the MANUFACTURERS RECORD under date of August 24, wrote:

In February I was very much delighted to receive an anniversary copy of your valuable publication (Thirty Years of Southern Upbuilding), and have been very much interested in same. A few days ago, while in Wilmington, Del., I was discussing this issue with Dr. J. P. Pyle, 809 West street, Wilmington, Del., and the doctor expressed a desire for a copy, being a heavy investor in Southern securities. I promised him I would do what I could to get him a copy.

Will you be kind enough to send the doctor a copy to the above address.

"Thirty Years of Southern Upbuilding," to which Mr. Howard refers, is still in demand from all sections. Many thousands of people have gained a broader knowledge of the South through that issue than they had ever had. So many are the requests received for it, and so great has been its influence for the good of the South, that we are inclined to undertake another somewhat similar publication, but to be as much in advance of that as "Thirty Years of Southern Upbuilding" was in advance of anything ever published in behalf of any section of this or any other land. Do our subscribers want something that will be far ahead of that publication? What say you?

WILL THE SOUTH MEET ITS INCREASING NEEDS FOR IRON AND STEEL BY ENLARGED PRODUCTION?

The South has about one-third of the country's population. At the present time we are producing pig iron in the United States at the rate of nearly 30,000,000 tons a year. If the consumption of iron and steel in their final finished forms was as great in the South per capita as in the rest of the country, this section would be annually using iron and steel products to the extent of about 10,000,000 tons, whereas it is producing pig iron to the extent of only 3,000,000 tons and steel to the extent of about 1,200,000 tons. If our consumption of pig iron per capita were as great as in the whole country, we would be using at least 10,000,000 tons of iron and steel in one form or another.

These facts open up a very great field for careful investigation on the part of business men. With the amazing progress of the South now under way, it is not at all unreasonable to look for a consumption of iron and steel products, which means everything from steel rails and locomotives to hardware and machinery in the next fifteen or twenty years as great as the per capita consumption of these things in the United States at present. This would require a consumption in the South of 10,000,000 or 12,000,000 tons or more of iron, and in its ultimate form of steel, three times as much iron as we are producing and nine or ten times as much steel. With the great momentum of material upbuilding now under way, the vast expansion of city building activities, the enlargement of railroad operations, the growth of commerce through Southern ports, the increase in manufacturing, consumption of iron and steel in the South must necessarily expand very rapidly. Where is this increased consumption of iron and steel to come from? Is the South going to produce it at home, or must it look to other sections to provide its pig iron, its steel, its hardware, its machinery to an even greater extent than at present?

An iron expert who has been giving

careful thought to the subject, in a letter to the MANUFACTURERS RECORD, says:

In the broad sense the consumption is in proportion to the population, but among the largest users of iron are the sections and manufacturers that fashion iron itself into the finished form. The consumption, therefore, of pig iron in the Southern States will be in proportion to the population only so far as that population expands its industrial and manufacturing side. But there is absolutely no question that in the ordinary course of events the demand for pig iron and the finished products in the South will enormously increase. I confess I do not know where the increased pig iron development is coming from, based at least on the present cost of production. There are very few of the furnace companies of the South that will increase their output. . . . The Cuban deposits and the Brazilian deposits will loom up very big in the next few years, and they will probably have a great deal to do with fixing the price.

I have held for several years that the best method of conserving our iron resources will be to educate the people up to paying a higher price for iron. It is worth it, and by paying more they will learn to economize in its use without that economy hampering development to any extent.

The South has been so far from its market that it has been compelled to sacrifice its raw material in order to move it, and the first effect of the increased Southern development will be a recognition of that fact. The consumption of pig iron in the South is still relatively small. The immense State of Texas only uses about 150 tons a day and gets the bulk of its finished product from Pittsburgh. It is very hard to strike a middle ground between frightening a man as to his resources and encouraging him as to their great value. But as long as the demand in the South itself for pig iron is so poor that the bulk of it has to be shipped into the Central West to find a market, so long will we be depleting our Southern reserves for the benefit of another locality.

Iron ore and coal are different from agricultural products. The latter with proper care can be made perpetual; the former cannot be replaced as they are consumed.

These statements should be given careful study. We have been selling our pig iron at so small a price that we have been depleting our reserves without materially enriching the South through the production of pig iron. The statement that Texas consumes in its own foundries and machine shops only about 150 tons a day, buying the bulk of its finished product from Pittsburgh, should stir the people of Texas to the development of iron and steel making in order to supply its own needs, and likewise to the manufacture at home into the finished product the iron which sooner or later it will make on a large scale.

The South has been shipping much of its pig iron to the North and West with a very scanty margin of profit, and often without any profit, while buying back at a large profit to other sections every imaginable variety of iron and steel products. Producing, as this section now is, only 3,000,000 tons of pig iron and only 1,200,000 tons of steel, we face a situation that with the increasing wealth and industrial development of the South this section must in the next fifteen or twenty years certainly consume very near as much of the ultimate products of iron and steel per capita as the United States now does. This would mean more than three times as much iron as we are now making, and nine or ten times as much steel.

The question may be raised whether in the next fifteen or twenty years the per capita consumption in the South will be quite as great as in the United States at present. Suppose it should not be. It will, nevertheless, certainly come within reasonable distance of that rate, and if it should in fifteen years only reach 6,000,000 tons of iron and

steel, this would still mean the doubling of our iron production and the quadrupling of our steel output if we are to take care of our own consumption of iron and steel goods.

It is not to be supposed, of course, that the time will come when iron and steel products will not be shipped from other sections into the South; but the South at the same time will be shipping many of its iron and steel products into other sections and abroad, thus to some extent balancing its imports of these goods by its exports of them.

Where is this increased production of iron and steel to be made? Will it be in the Birmingham district? Will Chattanooga add to its output? Will new plants be established at South Atlantic and Gulf ports? Will Texas become an iron and steel producer? Will Virginia and West Virginia increase their furnace and steel capacity? And then, too, will we develop our diversified iron and steel industries to furnish a home market even for the iron we now make. Men who look far ahead, and investments in iron and steel enterprises must always be made on the basis of what may take place in 20 or 25 years, may well give serious attention to this interesting situation.

WILL ENGLISH MILLS COME SOUTH?

With the near approach of the completion of the Panama Canal and the great development of water-powers under way in the South there come rumors that some of the big English cotton manufacturing concerns who now take Southern cotton and turn it into the finished product for export for the Orient are considering the feasibility of building mills in the South and manufacturing on the spot the goods suitable for their oriental trade. The enormous investments that are to be made in the development of water-powers in Alabama by English capital, as outlined last week in the MANUFACTURERS RECORD, will unquestionably tend to attract to the South the attention of other English financial and manufacturing interests, and doubtless result in other investments in this section by Englishmen equally as far-reaching in importance as that of the Alabama Interstate Power Co., with its \$55,000,000 of capitalization. The dawn of the day of broad Southern development is here.

A BIRMINGHAM VIEW OF BIRMINGHAM'S CAMPAIGN.

The *Ledger* of Birmingham, referring to the campaign of advertising which the Chamber of Commerce of that city has undertaken through the MANUFACTURERS RECORD in order to concentrate the attention of the country on that district and its resources, says this "Is a practical move which cannot fail to result in material benefits to Birmingham," and in closing its editorial commendation of this advertising campaign makes some suggestions worthy of consideration by business people generally, and especially by the progressive cities of the South:

There is no doubt that the information set forth in a series of advertisements in this periodical will attract the attention of many active business interests, and will be helpful in giving the public authentic knowledge of what the Birmingham district is and does in industrial activity. The move ought to be the means of bringing no little capital here and in the establishment of many industrial plants and distributing agencies.

This movement cannot fail to impress the outside world with the progressive spirit of the Birmingham people. It will emphasize that Birmingham business men believe in the physical advantages of the district and are willing to pay something to tell the

rest of the country of the opportunities offered. Such a move will have a favorable effect upon business men in other parts of the country who realize the value and importance of intelligent publicity in connection with a city's resources and inducements.

Cities as well as private business enterprises have got to let the world of finance and industry know what they have in order to attract outside capital. Competition is increasing among cities in this field, and those cities which do nothing to exploit their resources and opportunities are apt to see the business go elsewhere. Birmingham is guarding against this by telling the world some interesting facts about the city and district.

WROUGHT WITHIN ONE LIFE-TIME.

John Fritz, the great master genius of the iron and steel trade, celebrated his ninetieth birthday on August 21. The *Iron Trade Review*, in a tribute to him, said:

If there ever lived a man whose life was an example to younger men, that man was John Fritz. The name is synonymous with unremitting effort and patient labor. Whatever John Fritz did, he did with all his might. The debt the iron trade owes to him is immeasurable, and his name will always remain one of the foremost, if not the very foremost, in the history of the American iron trade. . . . It has been impossible to avoid writing this review in the past tense, for while John Fritz is with us, yet his life work is ended. He is sitting in the shadows looking back, but it is safe to say no man now living can look back upon so much. He saw the beginnings of the American iron and steel industry, and he has been part and parcel of its astounding development, being much more intimately associated with it along purely creative lines than any other man. It was a stupendous career of human effort that he looked back upon yesterday from the great height of ninety years.

This is a well-deserved tribute, not in the least overdrawn, to one of the world's greatest geniuses. And yet one of the leading daily papers of the South lately expressed its entire ignorance as to John Fritz in such a way as to indicate that it had never heard of him and his epoch-making work in iron and steel.

Three or four years ago the writer, while spending several days in company with Mr. Fritz, was told of the early struggles of the iron interests of Pennsylvania, of how prior to 1800 every banker in Pittsburgh preferred to lend money to any other line of industry or business than to the iron people. At that time the iron industry, through many failures, was practically without honor or credit at home or abroad. Mr. Fritz pointed out the condition through which the Pennsylvania iron interests had passed as illustrating some of the ups and downs which had and would follow the early development of the iron interests in the South. He looked to the time when iron and steel making in the South would show a success similar to that of the iron and steel business of Pennsylvania, and become the preferred client of every bank rather than the one upon which the banker looked askance.

At that time Mr. Fritz, even then some 86 or 87 years old, expressed the regret that he was not young enough to again identify himself actively with the creation of a new steel plant. His ambition was to be able, although, he knew his age made this impossible, to build somewhere on the tidewater, and preferably, as he expressed it, at some point on the Chesapeake Bay or on the Delaware River, a great steel enterprise, having for its object the production of the highest grade of steel, seeking to produce quality rather than quantity, and in connection therewith to have a great school for the training

of boys, so that by education and by practice in the works they might be fitted to become the highest class of steel-makers.

The other subject which seemed most upon Mr. Fritz's mind, as day by day he talked about business matters, was the danger to the business interests of the country, and, as he feared, to our Government itself, by the spirit of agitation which was sweeping over the land. He regarded the constant effort to create strife and class hatred as a menace to the Government.

Mr. Fritz told many interesting stories about the days when the rail-makers of Pennsylvania, unable to sell rails for cash, would take railroad stocks and bonds in payment until there came a time when these securities were of but little value. The president of one of the companies with which Mr. Fritz was identified was approached one day with an order for rails, provided the company would take the bonds of the railroad in payment. The president said that this would be satisfactory to him, but when the buyer asked for the terms the reply was: "We will trade even—a ton of rails for a ton of bonds."

When John Fritz was born the United States was without railroads. The stage coach and the river steamer were the means of transportation. The wealth of the country was triflingly small, and the world had made but little progress in material upbuilding. But the world was getting ready for the utilization of the steam engine and the locomotive, and the progress since then has been beyond man's comprehension. John Fritz, born at a time when railroads were practically unknown, has lived to see 250,000 miles of railroads in the United States; has seen the feeble country of that day become the most powerful in the world, and has seen practically all the great inventions which have made possible our present civilization. What a marvel that within the brief space of one life such wonders have been wrought!

"MADE IN ATLANTA" EXHIBITION.

Hon. Cortland S. Winn, Mayor of Atlanta, in a letter referring to the recent exhibition of Atlanta-made goods as described in the MANUFACTURERS RECORD, says:

This exhibition was a revelation to the people of our city, and I am sure will result in far-reaching benefit to the manufacturers making displays of their products. The exhibition extended over a period of 10 days, during which time the Southern Merchants' Convention was held in this city. This convention attracted over 200 Southern merchants, who were afforded opportunity of viewing the products of the mills and factories of this city. So successful was the exhibition that it has been determined to hold a similar exhibition of Atlanta-made goods on a more extended scale, however, annually hereafter.

COULDN'T DO BUSINESS WITHOUT IT.

The Arkansas Line Co. of Ruddels, Ark., in a letter to the MANUFACTURERS RECORD, says:

We are in the market for stove and heading machinery for making slack barrel stock. Will be pleased to hear from parties having either second-hand or new machines for sale. We will thank you for placing this in your want columns. We want to say that your paper is the means of our securing scores of orders for lime every season. We would not think of doing a manufacturing business in the South and not have a copy of the magazine on our desk every week. The copy which comes to us is read with much interest by several employes, and we are all helped by its optimism as to our future.



A SECTION OF SKYLINE OF ATLANTA.

Diversified Industries Are Fundamental in Atlanta's Growth.

[Special Correspondence Manufacturers Record.]

Atlanta, Ga., August 24.

For several years I have watched Atlanta's growth, and have attributed much of it to the fact of the city's possession of many different manufacturing plants engaged in varied forms of production, and I have sought to impress upon other communities the fact that in diversification of industrial establishments, rather than in preponderance in any one, lay the road to enduring success.

Atlanta, according to the census of 1910, which gives the latest full and complete figures, had in 1909 483 manufacturing plants, capitalized at \$30,878,000, employing 15,091 people, paying wages annually of \$8,147,000, and turning out products valued at \$33,380,000. These were all inside the city's corporation boundaries. But in Fulton county, of which Atlanta is the legal and commercial seat, and lying so close about the city limits as really to belong in the catalogue of the city's possessions, were 65 other plants, making the total 548, increasing the capital to \$42,000,000, the number of employees to 19,000, the annual payroll to \$11,000,000 and the product to \$43,000,000 in value.

To be compared with the figures given of Atlanta proper are those of 1899, showing 196 plants, with capital of \$14,603,000, employing 8658 people, paying in wages \$3,356,000 and turning out products valued at \$14,419,000. By 1904 these had grown to 294 plants, with \$21,631,000 capital, 13,417 employees, \$5,796,000 wages and \$25,746,000 worth of products.

Since the taking of the census of 1910 50 or 60 new industries have been established, so that it is safe to say there are now 600 such plants in and close about Atlanta, with a probable increase of at least 10 per cent. in capital employed, laborers engaged, wages paid and product turned out. That means that in a population of 175,000, for that is the number of people estimated to live in the city and suburbs in which these plants are located, about 21,000 people are employed in such manufacturing industries as the Government census takes note of. More than 10 per cent. of the entire population; more than half the number of men of voting age.

Next to the number of manufacturing concerns located in Atlanta, the great illuminating fact that stands out to light other communities to careers of equal success is that there is no one industry of such size as to dwarf and overshadow the others. There is none that employs as much as 10 per cent. of the labor of the community; none whose workmen, in case of shutdown or failure, could not be readily absorbed into the general ranks of work-

ers employed in the other concerns. Consider what safety and security lies in such conditions.

What has brought about these conditions? Much has been said about the "Atlanta spirit"—that spirit of oneness that has made the men of Atlanta join hands in every movement that had for its aim the good of the city, and it has become known throughout the entire country as typifying the force that builds up communities and makes cities great. But somewhere back of that spirit, or perhaps under it, and forming the solid foundation for it to operate upon, is an intelligent understanding of the requirements and possibilities of the community, a guiding and directing influence that has kept it from wasting itself in vain and foolish efforts to accomplish the impossible. The consequence is that Atlanta has always looked keenly and inquiringly into every proposition to locate a factory or other business enterprise within her borders, deciding first whether it is such as in the nature of things belongs here, and next whether the company or individual behind it is responsible and able to carry it forward properly. These two questions answered in the affirmative, all proper effort is put forth to secure such enterprise, the "Atlanta spirit" is aroused and success is reasonably sure to follow. The exercise of this intelligent care has kept the people here, enthusiastic as they are in their desire to build up their city, from lending their efforts to secure plants foredoomed to failure, making them at all times ready to join in any project for the advancement of Atlanta that the leaders in the community investigate and approve.

The "Atlanta spirit," therefore, is made up of a mixture of enthusiasm and intelligence, the two forming a combination that is irresistible in city building, because the intelligence prevents the undertaking of anything not practicable and the enthusiasm overcomes every obstacle that seeks to obstruct its progress along a proper course.

And not only does this intelligence avoid those undertakings in their nature not feasible, it also avoids a waste of effort upon those that are so large that their output cannot be taken up by the territory in which they find their natural market. Atlanta has a large natural trade zone, in which is found a profitable market for large quantities of its manufactured products, and it were poor economy to manufacture so much of any one thing that the surplus must seek for a market in territory whose adverse freight rates would consume the profits made elsewhere. Atlanta, therefore, intelligently cultivates the markets that are hers, and as intelligently refrains from trying to force her

products into those markets which can yield no profit.

It was in 1881 that the manufacturing spirit began to make itself manifest in Atlanta. The Civil War was 16 years past, and the city had risen from the ashes in which Sherman's army had left it; the reconstruction period, more costly from a monetary point of view than the war itself, had been suffered and survived, and the men of Atlanta began to take stock of their possessions and prospects. Fortunately, the city had among its people men of vision—Grady, Inman, Howell, Joseph E. Brown and others more or less gifted—who pierced the veil of the future and saw the opportunities it held for this community if it had the courage to dare and the determination to do. They pointed out the strategic position of Atlanta with respect to the great, fertile, resourceful South, then desolate, but once wealthy and prosperous, and now certain to grow greater, richer, more prosperous than ever before. Through the efforts of these and such as these Atlanta held in 1881 an exposition that attracted the attention of men of foresight all over the country. But more than anything else it served to strengthen the faith of the people of Atlanta in the future of their own town, the people of the entire South in the future of their own section.

It was not much of an exposition, as expositions now go; almost any county anywhere could now have a better and not half try, but it was a big thing for the day and for the South, and mighty in results. The grounds were well outside the city limits, a considerable distance from the hotels and business district, and without even the old-style horse-car railroad to carry people to them, the main dependence being upon one of the railroad lines, always an unsatisfactory way for crowds to travel to and from such exhibitions. But those who wished to do so got there one way or another, and among them were men whose presence counted much for Atlanta and the South in the years that have followed. It was among the first great gatherings having the result to take the minds of the people of the South off their political misfortunes and rivet them upon their material opportunities, and its effect was far-reaching. It awakened the "Atlanta spirit," which has not slumbered since, and its thrill was felt to the South's uttermost reaches. It marked an epoch, was the beginning of an era in Southern development.

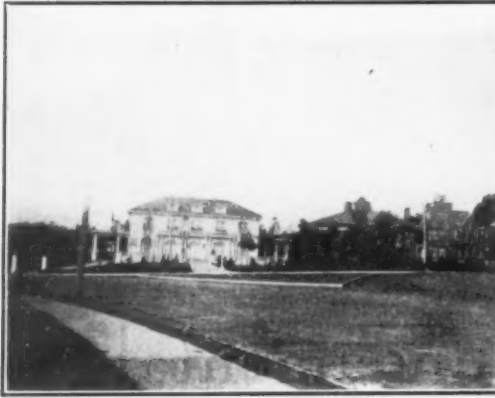
The story of one incident of that exposition is worth repeating here, though it has been told many times. On the exposition grounds a patch of cotton had been planted, with the idea that it would be open and ready for picking during the

time of the show. So it was, and on a certain day it was picked, ginned, spun, woven into heavy cloth, manufactured into a suit of clothing, and at 4 o'clock the same day Governor Colquitt, dressed in that suit of clothes, made a speech to the people on the exposition grounds. There had been discussion for years as to the feasibility of manufacturing cotton goods in the South, many alleged experts arguing that qualities of climate or some other intangible something necessary to the making of such fabrics were lacking here; but the people who saw that suit of clothes taken from the boll in the morning and worn by the Governor in the afternoon could never again be led to take stock in an argument of that kind. And thus was an impetus given the manufacture of cotton goods in the section which is the natural home of the spindle and the loom. Some of those old exposition buildings, indeed, were turned into a cotton mill, and many thousands of yards of cotton fabrics have followed there the weaving of the cloth for Governor Colquitt's clothes.

To enumerate the various articles manufactured in Atlanta would require more space than can be given at this time, embracing, as the list does, a thousand different things, running from structural steel to candy, and taking in many of the things necessary in the every-day economy of human existence. But there is a list of things proper to be given here, though I will not attempt to make it complete. It is of those articles that can, according to the best consensus of opinion, be manufactured here at a profit, the field not being filled. Among these things are automobiles and other vehicles, woodworking machinery, refrigerator machinery, ice machinery, sawmills, shingle mills, grist mills, hay presses, steel tools and steel axles for various kinds of vehicles, steel springs, scale beams and steel yards, malleable iron castings, bolts and nuts, leather goods, men's and boys' clothing, ladies' and children's underwear, ladies' and children's waists, infants' and children's white dresses, knit underwear, handkerchiefs, collars and cuffs, caps and cloth hats, quilts, cereal foods, compound lards, macaroni, soaps made from cottonseed oil, poultry supplies, such as coops, egg cases, brooders, incubators, wooden platters, baskets and crates, advertising novelties, electric signs, reed organs, playground apparatus, medicated cotton and bandages, clay products of various kinds, wheels, hubs, spokes and bodies for wagons, bugles and other vehicles, cotton-mill machinery.

The reason why plants to make these things would prove profitable in Atlanta can be readily figured out by those who are familiar with existing conditions. At-

VIEWS OF TYPES OF ARCHITECTURE IN ATLANTA.



IN RESIDENCE SECTION.



STATE CAPITOL.



EAST LAKE CLUB.



CANDLER BUILDING.



FOURTH NATIONAL BANK.

Atlanta lies close to the center of the great South, and the railroads radiating out from here reach into every important community, giving her merchants and manufacturers easy access to every section. In the South there are almost 30,000,000 people, who consume far more of manufactured goods than they produce. Not only so, but this population is growing more rapidly than that of any other portion of the country, and its consuming power is increasing much more rapidly than its power of production in manufactures, so that it will be for many years to come the best purchaser of manufactured products to be found anywhere on this continent. Especially is this apparent when taken in consideration with the fact that the people of the South, by reason of their increasing power in agricultural production, are annually becoming more able to buy. In addition to the unsurpassed markets to which Atlanta has such easy access, it is the natural point of assembly for raw materials of many kinds—hardwoods, cotton and cottonseed, kaolin for high-class pottery, fruits and grains, to mention a few of the most important.

Another element sometimes overlooked by those who do not go deeply into such things is the factory population. Manufacturing establishments frequently fail because they are located in communities that cannot furnish a sufficient number of employees. But Atlanta has been a manufacturing town for so long, and to such an extent, that a population trained to factory life has grown up here, and by constant natural augmentation has kept fully abreast of the demands made upon it. Unsurpassed living conditions have had much to do with creating this situation. Atlanta lies 1050 feet above sea level, and on ground that drains in all directions. It is, therefore, never excessively hot, and the nights are always cool and pleasant, while the natural drainage has kept it from being malarial or subject to such epidemics as sometimes visit other South-

ern towns. Prices of the necessities of life are moderate, vegetables are cheap during a large part of the year, and the family with an ordinary income can live here more comfortably than in most cities of like character and like progress. These things have made it easy for the manufacturer to secure labor of the highest class.

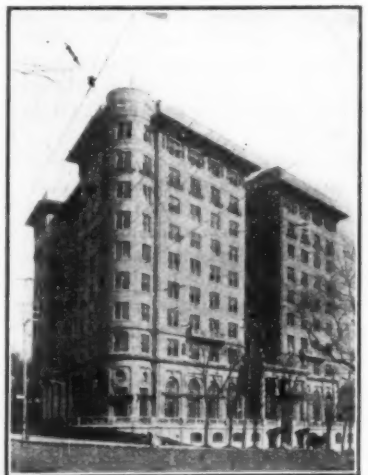
It is no wonder, then, that Atlanta is continually adding to her manufacturing strength, and that her live and progressive business men are filled with a spirit that is ready to tackle any reasonable undertaking. These men believe they have the best town in the South, and that they will have the biggest town in the South, and they do not propose to leave anything undone to make and keep it so.

Atlanta has been enjoying a building activity of very considerable proportions for the past several years, high-water mark having been reached in 1911, when there were erected in the city 1208 residences, 119 business houses, 11 apartment-houses, 4 factories and 7 churches, the aggregate cost being \$6,215,900. When I was here some three months ago I was informed that this high record would be surpassed this year by the erection of buildings that would cost at least \$7,000,000. Those figures are now considered too small, and conservative estimates put the total for 1912 at \$9,000,000. A new courthouse, several apartment-houses of high class, two big hotels, a number of big office buildings and hundreds of residences, some of them very handsome and costly, figure in this total. On every hand new buildings and preparation for new buildings may be seen. On Peachtree street alone, between the Georgian Terrace hotel and the beginning of the business district, business houses and apartment-houses with an aggregate street frontage of at least 700 feet are either in course of construction or the ground is being prepared for beginning.

The wholesale trade of Atlanta is very large, extending throughout a wide ex-



THIRD NATIONAL BANK.



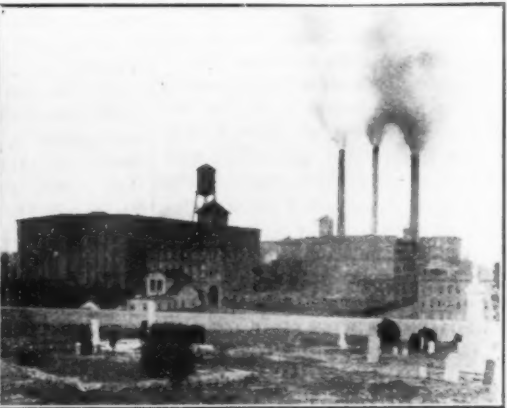
GEORGIAN TERRACE.



AUDITORIUM AND ARMORY.



PEACHTREE STREET LOOKING NORTH.



FULTON BAG AND COTTON MILL.

panse of territory, and aggregating many millions yearly. An army of traveling men representing Atlanta houses carry the flag of her commerce into all the highways and byways of the South, visiting every cross-roads store and making its owner buy Atlanta goods or give himself a good reason for not doing so. Scores of manufacturing establishments and jobbing houses elsewhere have established agencies here, many of them presided over by high-priced managers, and make this the distributing point for a big territory. Especially is this true of the automobile business. I am informed, indeed, that every automobile factory in the United States of any importance has an agency here. Some of these occupy large quarters in the city's most eligible sites, and one or two are putting up expensive buildings of large area for their own exclusive use. In fact, the automobile business seems to be rapidly advancing to a front rank in the trade of the city, and is the means of bringing many thousands of dollars here from surrounding communities to be deposited in Atlanta banks and help to swell the volume of Atlanta's financial transactions. It is said that Atlanta owns more automobiles than any other Southern city, and in truth I am inclined to believe the statement, for they are here in very large number. The fact that Fulton county has 300 miles of good automobile roads is responsible for a considerable part of this alleged pre-eminence.

Financially Atlanta stands well up among the cities of the South. The banks here have a combined capital and surplus of \$12,694,000, and deposits of \$31,085,000. Insurance companies with their home offices or general agencies here bring to the city \$10,000,000 annually in the way of premiums. The bank clearings in 1911 aggregated \$653,130,420, as against \$574,164,916 in 1910. The postoffice receipts for 1911 were \$1,156,808, as against \$1,052,868 in 1910.

As an educational center Atlanta has no superior in the South. There are 56 public schools here, with an enrollment of 22,000 pupils, while 7900 more were enrolled during the last scholastic year in the various colleges, technical and scientific institutions. The Georgia School of Technology, one of the most widely-known schools of the South, is located here, and is doing a wonderful work in educating the young men of the State to use their hands and their heads in conjunction. It had an enrollment last year of 800.

All the leading religious denominations are represented in the 235 church edifices here, some of them very handsome and costly, and embracing in their membership a very large proportion of the citizenship of the community.

The residence sections of the city are notably beautiful, with many delightful homes, famed alike for their elegance and their hospitality. An excellent street-car service, carrying far into the suburbs, is rapidly extending the area of the residence sections and helping in large measure to build up the city in that important point. An interurban line to Marietta has opened up a considerable stretch of country to the suburban home builder, and others soon to be put in commission will help to extend the strength of the city in other directions.

Atlanta has a well-organized, and, I might say, thoroughly mobilized, Chamber of Commerce, the power and influence of which is felt in every phase of the city's development. It is this body (possibly not the identical organization under the same name, but always maintaining the same spirit) that has guided Atlanta's footsteps in the right path and led her to her proper destiny. Not only does this organization lead in matters financial, in-

dustrial and commercial, it marches in the forefront of civic movements as well—participates in everything that has for its object the city's good. As an instance of this, the Chamber of Commerce several years ago organized and carried on a campaign for a bond issue of \$3,000,000 to be used in bettering the sewerage system, in securing a sewage-disposal plant, in building new schoolhouses and in other forms of municipal improvement. It was the cause of the city's building a handsome and commodious auditorium for the holding of conventions and other gatherings requiring a building of great seating capacity, and through it have been brought here many conventions and public gatherings of such character that they have served to spread far and wide the fame of the city for enterprise, progressiveness and hospitality. The Chamber of Commerce, in fact, takes part in every worthy public movement that seems to need its help. It is now engaged in reconstructing the former Y. M. C. A. building for its own home, and when it is finished there will be nothing in the South more complete and appropriate for the purpose for which intended.

Taken in connection with its history, the name of Atlanta is one to arouse the best there is in Southern spirit, for about none clusters more of devotion and of glory. It was here that General Sherman kept 100,000 men for six months before beginning his historic "march to the sea," and close about were waged some of the fiercest conflicts of the Civil War. Five miles to the north was fought the stubborn battle of Peachtree Creek; this was followed by the battle of Atlanta, an equal distance to the east, and that by the battle of Ezra Church, three and a half miles to the southwest. Twenty-two miles to the northwest frowns great Kennesaw, where the men of the South and the men of the North, charging like Titans, proved each to the other the indomitable courage of the American soldier and added further lustre to the undying glory of American arms. While Atlanta is frequently spoken of as the "Yankee City of the South," and the opinion generally prevails that the enterprise and progressiveness that have brought it such great growth come from the possession of a large proportion among its citizenship of Northern men, the fact is that more than 90 per cent. of its people are Southern born, and a large majority of the men who head its various business concerns are Southern men. They are the men and the sons of the men who fought at Peachtree Creek, at Atlanta, at Ezra Church and at Kennesaw, showing the same courage, the same skill, the same determination to win against odds upon a field of endeavor less dangerous but none the less glorious.

In the rotunda of the Capitol building I saw the other day a statue of the great Georgia statesman and orator, Benjamin Harvey Hill, and read inscribed upon its base these words, penned by himself:

Who saves his country saves all things,
And all things saved will bless him;
Who lets his country die lets all things die,
And all things dying curse him.

It was Hill who carried from the South to the North the first message of peace and patriotism after the war, when in 1866 he said in a speech to Tammany: "There was a South of slavery and rebellion—that South is dead. There is a South of union and freedom—that South, thank God, is living, breathing, growing every hour." Following the precepts and the examples of Hill and such as he, the people of Atlanta set about the work of rebuilding their city and renewing their broken fortunes, and from the beginning to the present time have labored unceas-

ingly, they and those who have come after them, in that behalf. Their success is history. Their city stands today a monument to their wisdom, their enterprise and their patriotism. GEO. BYRNE.

DEEP WATER AT ARANSAS PASS.

Expected Shipment of 300,000 Bales of Cotton This Season.

Information from Aransas Pass is to the effect that a very elaborate celebration will be given between the 7th and 12th of September, when the formal opening of the new port will take place.

The Government has completed the initial undertaking of dredging the Pass and harbor, so that there are now 23 feet of water over the bar, and the harbor has been dredged to a minimum depth of 20 feet. Ultimately, the minimum depth of the harbor will be 25 feet.

Wharves and warehouses have been constructed by the Aransas Pass Channel & Dock Co., and a new line of seven miles of railroad has been built by the Aransas Harbor Terminal Railroad Co.

The first oceangoing ship to leave the new port will be the Brinkburn, bound to Liverpool with a cargo of 10,000 bales of cotton. The sailing will occur on the 12th of September. This is the first cotton ever shipped out of Aransas Pass, shipments heretofore having been made from Southwest Texas by rail.

Some idea of the importance of the new port may be gained by the fact that 300,000 bales of cotton are expected to be shipped out of Aransas Pass this the first season. Such an inauguration of a new port has never, it is believed, been known in cotton-shipping history heretofore.

In accumulating these cargoes at Aransas Pass, it is proposed to utilize barges, which will be carried through the channels leading to adjacent ports and through the completed portion of the Intercoastal Canal, so that cheap water transportation will be afforded to a considerable section of the Southwest coast country.

With such an initial commerce as the 300,000 cotton bales will provide it is figured that the new port will leap into immediate prominence. Other commerce is inevitable, one feature being oil distribution. A large tank has been constructed, which serves as a distributing base for Mexican oil.

Additional warehouses and terminal facilities are contemplated in the plans of the Channel & Dock Company, and altogether a very considerable development is expected of the port and also of the city of Aransas Pass.

Participating in the celebration will be not only the people of Aransas Pass and vicinity, but of all that section of Southwest Texas. San Antonio is arranging for particularly large representation, as the opening of this port will be of direct and decided advantage to the business interests of San Antonio.

The formal opening of the port of Aransas Pass is the culmination of long years of struggle, marked with alternate periods of buoyant hope and deep despair. There have been times when such an event as is about to be celebrated was all but realized, to be followed by financial depression and foreclosure sales. As in the development of the Texas ports generally, the pioneers in development looked beyond the conditions of the present to the possibilities of the future, and, in ignoring the difficulties and the impediments of the day, were undone in the failure to provide for the period of waiting necessary for the country to catch up with the visions of their prophecy.

Southwest Texas now has population and agriculture. The early development of a port at Aransas Pass was undertaken

when only cattle ranges, vast in their extent but thinly peopled, and towns in small number and scant in population marked that section. Even before the war of 1861-5 the Government had begun in a small way the development of a port in the Aransas Pass region. The war stopped the work and the channel filled up.

In the early nineties the project of securing a port for Southwest Texas was again taken up. The cattlemen and land-owners of the section organized a movement to secure a port development and subscribed a large body of land in and of this enterprise, and Alexander Brown & Sons of Baltimore took hold of the matter. On account of disagreements as to the best means of deepening the channel work was altogether halted for a term of years.

About two years ago the Government took up the work of deepening the channel. Two parallel jetties were then built, and with the expenditure of a couple of million dollars or so deep water was secured.

The Aransas Pass Channel & Dock Co. was organized to dredge a channel from the harbor to the main shore and build wharves and warehouses on the harbor front, and the Aransas Harbor Terminal Railroad Co. built the new line of several miles of road to give rail service between the wharves and mainland and to connect with the San Antonio & Aransas Pass road, a subsidiary of the Southern Pacific. The bonds of these companies were taken over by Alexander Brown & Sons and associates, who own the lands along the harbor front, and who will provide funds for additional wharfage and warehouse room, and extend the original short line of railroad to serve the new wharves. There is thus in contemplation a very considerable added development, and when completed the wharves, warehouses and railway terminals will be of a character and size sufficient to accommodate a large amount of commerce.

Regular sailings are now arranged to Liverpool, Bremen, Havre and Hamburg, and it is expected that a considerable coast-wise commerce will be built up. Canned goods, clothing, shoes, dry goods and other merchandise and provisions are expected to be shipped from Baltimore and other Atlantic coast cities for distribution through the San Antonio jobbing houses, and all Southwest Texas and points as far north as even Denver are expected to be served through the new port.

The advantage of having the house of Alexander Brown & Sons identified with the enterprise is very apparent. This more than century old house, with its offshoots and affiliated houses of Brown Bros. & Co. and Brown, Shipley & Co., has been famous as a developer of business and a world factor in finance since Baltimore was little more than a village. The history of this mother of many banking houses, occupying now and for generations past a commanding position among financial institutions of the world, is a romance of itself, as is the history of the struggles of Aransas Pass in the effort to reach its present position as an ocean port of real importance.

A South Georgia Land Company.

At a recent meeting of the stockholders of the Chandler Land Corporation at Cleveland, O., Charles J. Haden of Atlanta was elected president to succeed Harrison T. Chandler, who died recently. The late Mr. Chandler was a millionaire printing press manufacturer. The Chandler company owns 110,000 acres of Georgia lands, which it is developing and selling to farmers on easy terms. Its principal office is in Atlanta.

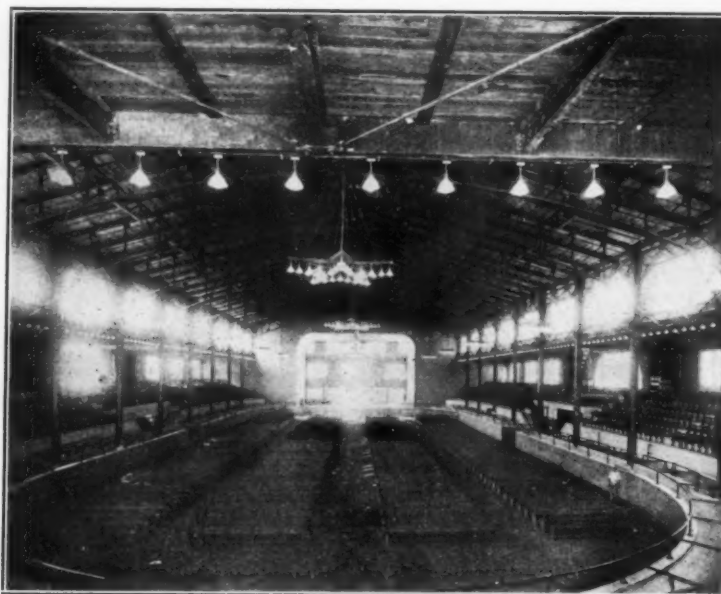
Heavy Iron Sales at Birmingham.

[Special Cor. Manufacturers Record.]
Birmingham, Ala., August 24.

The sales made against the local production of foundry iron since last report aggregate some 100,000 tons. Of this tonnage, 60,000 tons was bought by a leading pipe-producing interest for delivery in the first quarter of next year, while the remainder represents requirements of 1000 to 3000 tons each, for earlier shipment. As a result of the week's business the market for first quarter requirements is practically established on a basis of \$12.50 per ton at Birmingham for No. 2 foundry, with a tendency to advance to a basis of \$13 per ton. These last figures are being adhered to strictly by one large producer, while the available tonnage at a \$12.50 per ton price has been limited by other concerns. A basis of \$12 at Birmingham for No. 2 foundry still rules for deliveries in the remainder of the year, but with a differential of only 25 cents per ton on that basis for Nos. 3 and 4 foundry. A round tonnage of No. 3 foundry for the first quarter has just been refused by one producing interest, while another offered only 1500 tons at \$12.25 per ton at Birmingham. Report is just made of the sale of 400 tons of No. 4 foundry for the first quarter at \$11.75 per ton. A lot of 500 tons of gray forge for shipment over the remainder of the year was recently placed at \$11.50 per ton at furnace. From all indications the present condition of all order-books is very satisfactory to the producing interests, and will of necessity add materially to the output. With the recent sales it is believed that the present active capacity has been well taken care of during the remainder of the year, while at least two of the largest producers have disposed of a significant portion of their output in the first quarter. The supply of low grades is still limited to the several daily productions, while a shortage of the higher grades is indicated by the tonnage that has recently been taken from warrant yards. The sale of 1000 tons of No. 2 foundry from a local warrant yard was reported in the week at 12 per ton Birmingham. The fact that such holdings are not obtainable at a concession from the market price is very notable in summarizing market conditions, as more or less tonnage was placed in warrant yards when prices were considerably lower than now rule. With the recent heavy sales for early delivery the movement from furnace yards has, of course, increased, and the showing to be made September 1 in the matter of stock accumulations will be affected accordingly. The inquiry now before the trade consists principally of less than 1000-ton lots, although an attractive volume is represented. In some cases tonnage has been submitted for shipment over the entire first half, and in all cases there is an evident disposition to provide for requirements against another probable advance.

The sale of a round tonnage of charcoal iron has just been reported, but the price consideration is not given out. This grade is, of course, stronger in line with the market for foundry grades, although asking prices are not revised. For delivery in the remainder of the year, and in the first quarter of next, quotations on the several grades are revised as follows per gross ton f. o. b. cars Birmingham, viz.: No. 1 foundry, \$12.50 to \$13; No. 2 foundry, \$12 to \$12.50; No. 3 foundry, \$11.75 to \$12.25; No. 4 foundry, \$11.50 to \$11.75; gray forge, \$11.25 to \$11.50; mottled, \$11 to \$11.25; standard basic, \$12 to \$12.50; charcoal iron, \$22.50 to \$23.

The tonnage placed with cast-iron pipe manufacturers since last report consists principally of small lots for maintenance work. For such business a higher average



INTERIOR OF THE COLISEUM AT DALLAS, TEX., WHERE WILL BE HELD THE MEETINGS OF THE COTTONSEED CRUSHERS' ASSOCIATIONS DURING THE INTERNATIONAL EXPOSITION OF COTTONSEED PRODUCTS IN 1914.

price was received than in the week previous, and with the higher prices for pig-iron effective and advance has been made in all quotations. The new business in sight is no more definite than formerly, although a number of bond issues have just been announced, from which a very liberal tonnage is expected. With all local operations supplied with orders for some months yet, the conditions existing are not unsatisfactory as a whole, and the probabilities are that the advance that has been made in prices will be fully maintained. It is noted that shipment against all contracts has been very heavy, due to the favorable weather conditions, and that in no case is there an accumulation of stock. Revised quotations on class "B," or water pipe, are as follows per net ton f. o. b. cars here, viz.: Four-inch, \$24.50; six-inch and up, \$22.50, with \$1 per ton extra for class "A," or gaspipe. The asking price for special fittings has not been changed, but would, of course, be governed largely by the quantity required.

A larger movement of old material is reported, with prices being received more satisfactory than for some weeks past. The improvement applies more particularly to cast and wrought grades, however, as there is still quite a lack of interest in all steel grades, with the exception of re-laying rails. So far as is known, the negotiations mentioned in last report for a round tonnage of miscellaneous furnace scrap have not been closed, but recent receipts at dealers' yards are very large. The forwardings for the week consisted mainly of carload quantities, but a round tonnage was moved in the aggregate. In view of the conditions existing, asking prices cannot be revised with accuracy, but the market is undoubtedly stronger. We quote dealers' asking prices per gross ton f. o. b. cars here nominally as follows, viz.:

Old iron axles, \$15 to \$16.
Old steel axles, \$12 to \$14.
Old iron rails, \$12.50 to \$13.
No. 1 railroad wrought, \$12 to \$12.50.
No. 2 railroad wrought, \$11 to \$12.
No. 1 country, \$9 to \$9.50.
No. 2 country, \$7 to \$7.50.
No. 1 machinery, \$9.50 to \$10.50.
No. 1 steel, \$10 to \$11.
Tram car wheels, \$8.50 to \$9.
Standard car wheels, \$11 to \$12.
Light cast and stove plate, \$8 to \$8.50.

The situation as to finished iron and steel products from local operations is practically the same as at the time of last report, with the probable exception

of light steel rails, which are being delivered more promptly. One local mill is reported some three weeks behind specifications on this last named, which is also true of the other products. Specifications for all wire products and for bars and shapes are being received in large volume. To the requirement of structural material the tonnage necessary for the construction of the Jefferson County Savings Bank building, which is to be erected in this city, and to be 22 stories high, will soon be added. It is noted that the competition for this class of material has not been so keen recently, owing to the condition of order-books and the delivery required. No mention is made of a change in price for any of the finished articles referred to, and the condition of the market is very satisfactory.

Heavy Demand and Consumption of Iron.

Matthew Addy & Co. of Cincinnati in their weekly iron market report of August 24 say:

"It has been many a day since there has been as strong a pig-iron market as at present. There is a demand for all kinds of iron, and consumers show their faith in the future by trying to buy for deliveries as far ahead as the furnaces will sell. The Presidential campaign has cast no damper on the situation; in fact, the case is quite the contrary.

"The most significant development of the week has been the phenomenal sales of Northern iron. Many thousands of tons have been booked. Several Ohio furnace companies have sold considerably more than half the iron they will turn out during the first half of next year, and consumers are still hungry, as is shown by the continuous demand.

"It is evident that there is a great change impending in pig-iron. The stocks which accumulated in furnace yards during the panic are steadily dwindling. This means that not only is all the iron being used that is being made, but that the reserve stocks of the country are being drawn upon. It is only a question of a short time when the country will be obliged to depend on its daily make for its daily needs, and the supply will not be sufficient to meet the demand. Higher prices seem to be inevitable. Today No. 2 is quoted at \$12 f. o. b. Birmingham, and Northern is \$14 and \$14.50 f. o. b. furnaces. Furnace order-books are in fine shape. No maker of iron feels any pressure to sell. All are in good position, and offers at low prices

to move stock are no temptation. For a long time the consumer has had everything his own way, but positions are rapidly being reversed, and the ironmaster is beginning to feel again that, while he is still a long way from being a Prince, he is at any rate no longer a Pauper."

A \$1,000,000 MINING COMPANY.

To Develop 4000 Acres of Coal Land in Warrior River Field.

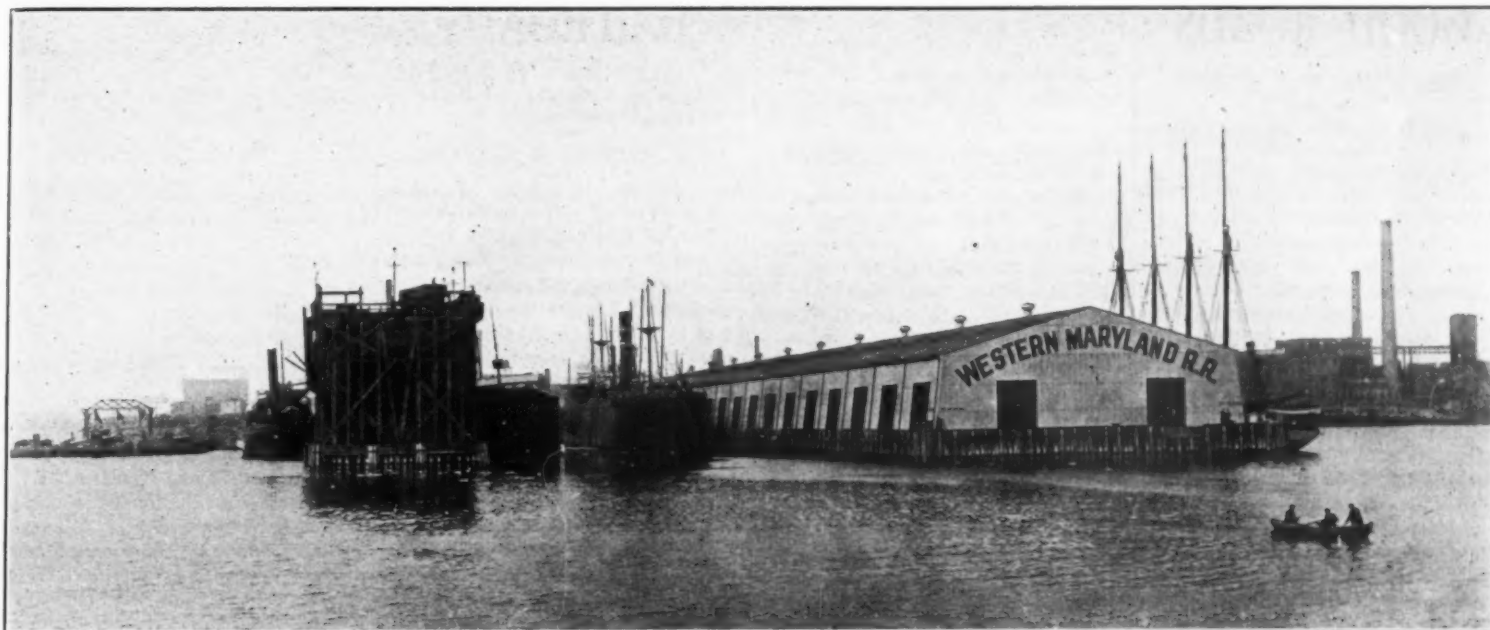
It is stated that a tentative agreement has been made for the organization of a \$1,000,000 company to develop 4000 acres of coal land in the Warrior River field near Tuscaloosa, Ala. The Blair Coal Co. of Tuscaloosa owns 1000 acres, and Erskine Ramsay, of Birmingham, and associates are said to own 3000 acres, which it is proposed the new company shall acquire and develop to a daily output of from 2000 to 2500 tons of coal, employing about 1000 men. Plans for mining are reported as contemplating the opening of four or five mines and the investment of about \$500,000 for preparing the land, opening the mines, installing machinery, etc. F. G. Blair of Tuscaloosa is named as the probable president and manager of the new organization, and he writes to the MANUFACTURERS RECORD that negotiations do not justify an authentic report. Besides those named, it is stated that W. E. Leake of Birmingham, R. E. Rhodes of Tuscaloosa and J. D. McInnis of Meridian, Miss., are interested. It is proposed that this company's coal output be barged to New Orleans by the Alabama & New Orleans Transportation Co. and its allied corporation, the New Orleans Canal Co., both of New Orleans, now expending \$1,000,000 for improvements to Lake Borgne Canal and reported as to expend \$100,000 for improvements near Tuscaloosa.

Shipments of Venezuelan Iron Ore to United States.

In regard to the iron ore now being mined at Imataca, Venezuela, by the Canadian Venezuelan Ore Co., Ltd., of Montreal, it is stated that it has been running quite uniform in quality, and that the amount in sight is large. The analysis of the first cargo sent to Philadelphia showed 68.20 per cent, metallic iron, 0.016 phosphorus, 0.042 sulphur, 1.40 silica and 0.231 titanic acid. The property has not been thoroughly prospected, but the work done is said to have proved more than 10,000,000 tons. The mine is south of the Orinoco River, about 75 miles from its mouth. Ore will be loaded directly from the mine into the steamer, and vessels can be used with a dead-weight capacity of 5000 tons. The one now engaged in carrying this ore to Philadelphia will shortly be replaced by another of about three times its capacity. A power-house and electric plant have been installed at Imataca. A large quantity of ore has been stripped, and it is stated that the property has been equipped so that it could produce 1,000,000 tons a year.—London Iron and Coal Trades Review.

To Rebuild Graphite Plant.

The Quenelda Graphite Co., Quenelda, Ala., will rebuild its plant recently destroyed by fire. It has plans for a 2000-ton equipment, and will be in the market for three boilers of 125 horse-power, steam pumps of 500 gallons capacity per minute, 6000 feet of six-inch piping, sawmill outfit to include planers, jointers and crosscut saws, drill press, lathes, contracting machinery for building five miles of railroad and other materials. This company has 22,000 acres of graphite property, which it is developing. E. P. Wilbur of Bethlehem, Pa., is president, and J. Warren May of Quenelda is manager.



PORT COVINGTON TERMINALS AT BALTIMORE.

WESTERN MARYLAND'S WORK.**Connellsville Extension Proves Equal to All Expectations as Great Traffic Route.**

It is now four weeks since the Western Maryland Railway Co. began the operation of its new extension from Cumberland to Connellsville, although about 30 miles of it (and that the section over the mountain) had been in use for three weeks previous by the Baltimore & Ohio Railroad for the handling of its business between Cumberland and Pittsburgh, owing to the collapse at Sand Patch tunnel. The extension is still sustaining this double use of its facilities, and is realizing the most sanguine expectations of its builders by the manner in which it has proved equal to the heavy demand made upon it by such an extraordinary volume of business.

The first train to run over the entire length of the extension was one of 50 cars loaded with wrought-iron pipe shipped from the works of the National Tube Co. at McKeesport, Pa. The two-column cut herewith shows this train and the four-column cut shows the terminal of the Western Maryland at Port Covington, Baltimore, to and from which tidewater point most of the Western Maryland business will be handled. The particular train here illustrated went from Connellsville over the Western Maryland lines to Shippenburg, Pa., where it was turned over to the Reading Railroad for New York, from which port considerable of the pipe was to be shipped to foreign ports in England, Denmark, Mexico and Japan. There were 10 cars of it destined for New York city, and another portion of the shipment was for the Hawaiian Islands.

The Western Maryland has arranged fast freight schedules for handling through business via the extension between the East and the West. At Connellsville the Western Maryland connects with the New York Central system, and also reaches the Erie Railroad by that route. There has been established a new rail and water route between the West via Pittsburgh, Connellsville and the Western Maryland, and New England and Southern ports, reached by the steamships of the Merchants & Miners' Transportation Co. sailing from Baltimore. There has also been established the "Southern States Dispatch," an all-rail freight route between Buffalo, N. Y., Youngstown, O., and other points over the Western Maryland, connecting through it to Southern points via

the Norfolk & Western, the Southern, the Atlantic Coast Line and the Seaboard Air Line railways. Agencies have been established in various cities to handle business.

In the large picture accompanying this article is shown the large terminal freight warehouse of the Western Maryland at Baltimore, also the large coal pier, by means of which coal brought in over the railroad is rapidly loaded into cargo steamers for all points. The coal shipments include those of the Davis Coal & Coke Co. of Baltimore. Thirty feet of water is available at ordinary tide, so that the largest vessels may be loaded without lightering. Rapid loading de-



FIRST TRAIN OVER THE EXTENSION.

vices are installed, so that no time is lost in receiving cargo. A number of ships have recently been chartered to load for Russian ports. These will carry principally implements manufactured by the International Harvester Co., including harvesters, mowers, harrows, binders and other farm machinery. They are all large vessels, and will average over 5000 tons each.

\$490,000 OF BONDS SOLD.**Port Arthur Will Buy Water and Sewer Systems and Extend Lines.**
[Special Cor. Manufacturers Record.]

Port Arthur, Tex., August 26.

Recently-voted city bond issues totaling \$490,000 were bought by Charles G. Gates at par and accrued interest. The bonds are 5 per cent. 20-40s, and cover purchase of land in the artesian water field nine miles from the city, a pipe line to be constructed to the field, extension of water and sewer systems in the city, erection of fire station and of city hall. Of the total, \$10,000 is intended for the fire station and \$20,000 for city hall. Chas. G. Gates, buyer of the bonds, was a heavy stockholder in the utilities sold to the municipality.

When the bids were received it was found that all were below par, which prevented their acceptance by the city commission, as provided by charter. Mr. Gates was not among the bidders, but was wired an account of the situation, he being in Yellowstone Park then. On the same day his offer to take the entire amount of bond issues at par and accrued interest was received by the city commission.

The incident has significance which extends beyond purely local limitations, as it will add another port on the Gulf coast where steaming water may be had at extremely low cost, and where ships' water may be had directly from dock hydrants

merce. General Bixby, chief of the United States Army engineering department, stated to me when here with the rivers and harbors committee of the lower house of Congress last fall, that when our plans are worked out we will have one of the most commodious and best-arranged harbors on the entire coast of the United States. Work is progressing very satisfactorily, and our commerce is increasing at even a greater rate than the most sanguine of our people had hoped.

"It is our purpose to push the improvements provided for in this bond issue as speedily as possible. For one thing, we will provide for as perfect sanitary condition as can be devised. We propose to install here the Imhoff tank system, which I believe is conceded to be the very latest development in sewage disposal. The sewerage system which we will install will permit every building in the city to be connected, and will accommodate a population more than three times as large as that we now have. We also propose to build here the finest city hall there is in the South. Our appropriation for paving, including the amount to be paid by abutting property-owners, will amount to about \$1,500,000, and at the rate at which we have been paying for paving of late, we estimate that this amount will give us 125 miles of additional paving. The appropriation for municipal docks contemplates very substantial and adequate structures."

To Nodulize Pyrites.

The Pyrites Company, Ltd., of London has complete its office building at Roanoke, Va., and begun the construction of the buildings for its nodulizing plant. The plant will include warehouses, large tanks for leaching, other tanks for precipitating copper from solution, sintering equipment, etc., for a daily output of 200 tons of nodulized pyrites. This product is obtained by treating pyrites cinder residue, which the company will collect from Southern fertilizer plants. Plans for building this plant were recently announced. G. W. Gray is manager of the Roanoke office.

A report says that the Chicago, Peoria & New Orleans Navigation Co. has been organized at Peoria, Ill., to operate freight steamers from Chicago and the Great Lakes to New Orleans and the Gulf of Mexico by way of the Mississippi and Illinois rivers and the Illinois-Michigan Canal. The incorporators are Carl Block, J. L. Sommers and S. D. Wead.

and not have to be barged in from points upstream.

FOR TAMPA IMPROVEMENTS.**Mayor McKay on Results of a Vote for \$1,700,000 Bonds.**

In a vote of 4 to 1 citizens of Tampa decided last week upon a bond issue of \$1,700,000, of which \$748,785 will be devoted to storm sewers and paving, \$555,216 to the completion of a sewerage system capable of meeting the requirements of a city of 150,000 population, \$300,000 for city hall and building site and \$100,000 for city docks and parks.

Hon. D. B. McKay, Mayor of Tampa, in a letter to the MANUFACTURERS RECORD in regard to the improvements to be made in that city, says:

"We believe that the recent election authorizing the issuance of bonds in the amount of \$1,700,000 for public improvements is the most important event in the history of this city. With this money we will lift Tampa out of the overgrown village into the modern city class. We are planning for a city, having confidence that this is to be the most important city in the South, or at least one of the most important. We base our hopes largely upon the development of our marine com-

GOOD ROADS

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Full details of highway undertakings are given in the Construction Department, published elsewhere in this issue.]

Bonds Voted.

Bay City, Tex.—City voted \$11,000 street improvement bonds.

Ferris, Tex.—Ellis County District No. 9 voted \$100,000 road construction bonds.

Bonds to Be Voted.

Bowden, Ga.—City votes September 28 on \$4000 street improvement bonds.

Calhoun, Ga.—Gordon county votes September 13 on \$150,000 road construction bonds.

Chatham, Va.—Pittsylvania county votes September 3 on \$100,000 road improvement bonds.

Clearwater, Fla.—City votes September 10 on \$40,000 paving bonds.

Dade City, Fla.—City will vote on \$12,000 street improvement bonds.

Lincoln, Miss.—Montgomery county votes September 2 on \$40,000 road bonds.

Mt. Vernon, Ky.—Rockcastle county votes October 28 on \$100,000 turnpike construction bonds.

Memphis, Tenn.—Shelby county will ask Legislature for authority to vote on \$1,000,000 bonds to continue road construction.

Contracts Awarded.

Baltimore, Md.—City awarded contracts for granite and vitrified block paving totaling \$81,000.

Charlotte, N. C.—City awarded contract at \$2953 for cement work on various streets.

Dallas, Tex.—City awarded contract at \$4610 for paving.

Denton, N. C.—C. M. Lane & Co., High Point, N. C., have contract to build road costing about \$100,000.

Greenville, Ala.—Butler county awarded contract at \$17,000 for resurfacing 12 miles of road with sand-clay.

Moultrie, Ga.—County awarded contract at \$10,640 for road construction.

Ocala, Fla.—City awarded contract for 12,000 square yards of vitrified brick paving.

Poplar Bluffs, Mo.—City awarded contract at \$86,645 for paving with Egyptian brick.

Sedalia, Mo.—Sedalia Twelve-Mile Road District Commissioners awarded 14 separate contracts, totaling \$147,000, to construct 41 miles of roads.

Temple, Tex.—City awarded contract at \$26,380 for paving and curbing with concrete.

Contracts to Be Awarded.

Austin, Tex.—City opens bids September 26 for 16 blocks of paving.

Booneville, Miss.—Highway Commission receives bids until September 14 for improving about 25 miles of road.

Cartersville, Mo.—City receives bids until September 5 to construct 9090 linear feet of combined concrete curb and gutter, 2350 feet of concrete sidewalk and 5600 linear feet of eight-inch sewers.

Clanton, Ala.—County Commissioners receive bids until September 23 to grade, drain and surface with gravel about six miles of road.

Cumberland, Md.—Allegany county opens bids September 6 for two and a half miles of road grading and macadamizing.

Decatur, Ala.—Morgan county receives bids until September 24 to construct two miles of road.

Defuniak Springs, Fla.—Walton county

receives bids until September 23 to construct 120 miles of roads.

Eunice, La.—Town will invite bids for five miles of cement sidewalk.

Knoxville, Tenn.—City receives bids until September 5 for 1000 square yards of paving, 8000 cubic yards of excavation, 9000 linear feet of curb, etc.

Lafayette, Ala.—Chambers county receives bids on September 14 to grade and surface 12 miles of road.

Leesville, La.—City will open bids for about five miles of cement sidewalk.

Louisville, Ky.—City opens bids September 6 for paving to cost about \$52,000.

Rockford, Ala.—Coosa county receives bids until September 16 to grade and surface about six miles of road.

Savannah, Ga.—Savannah & Tybee Turnpike Co. was incorporated with \$500,000 capital stock to construct road from Savannah to Tybee.

Shreveport, La.—Caddo parish receives bids until September 12 to construct five miles of road.

Springfield, Mo.—City authorized paving, guttering and curbing to cost \$100,000.

Taylor, Tex.—City receives bids until September 2 for 18,000 square yards of paving.

White Castle, La.—City will order 7000 feet of gravel paving.

TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Rosemary Manufacturing Co.

The Rosemary Manufacturing Co., Roanoke Rapids, N. C., has decided upon an equipment of 22,000 spindles and 500 wide Jacquard looms for its additional mill, lately announced as to be built, for which plans are being prepared. This company has recently erected a 75x60-foot two-story addition to its weaverhouse No. 2, to contain 48 additional wide Jacquard looms and clothroom machinery. It has also built a 100x100-foot supply-room and machine shops, and is building a 2000-kilowatt steam-electric power plant and 38 operatives' cottages. During next winter and spring the company expects to erect 54 more cottages. Contracts have been awarded for all the improvements except the main building for the additional mill.

Oconee River Mills.

The Oconee River Mills, Dublin, Ga., which was organized in June, succeeded the Georgia Cotton Mills, and has invested a considerable amount of money for improvements in addition to 200 automatic 40-inch looms. The plant now has 8500 spindles and 265 40-inch looms. It is under the same management as the Eastman (Ga.) Cotton Mills, S. C. Smyly being general manager of both.

To Build 10,000-Spindle Mill.

The High Point (N. C.) Hosiery Mills will build a 10,000-spindle mill for producing hosiery knitting yarns, but has not had the plans prepared. This supercedes last week's item as to the High Point Consolidated Mills Co., which was erroneous.

Textile Notes.

The Barringer Manufacturing Co., Rockwell, N. C., will erect an additional building and install new machinery. It was mentioned in April as to add 3000 spindles.

The Bedford Mills Co., Bedford City, Va., will build an addition and install new machinery to double its carding and spinning capacity. It also contemplates installing electric power.

RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

GULF, FLORIDA & ALABAMA.

Expected That 90 Miles of Track Will Be in Operation by October.

The Gulf, Florida & Alabama Railway Co., which is building a line from Pensacola, Fla., to Jasper, Ala., about 300 miles, expects, according to a report quoting an officer, to have 90 miles in operation during October, this being from Pensacola to a point about 10 miles north of Local, Ala. Bids are now being invited for the construction of about 20 miles of extension north of Local. It is also anticipated that by the time the 90 miles are ready for operation one of the new docks at Pensacola will also be completed. There are five of them, all of concrete. It is further said that early next year the line will probably be opened for business as far as Pine Hill, Ala., 137 miles from Pensacola.

A considerable part of the main line consists of the railroad of the Southern States Lumber Co. from Cantonment, Fla., to Local, Ala., 63 miles, and a connection has been built for about 19 miles from Cantonment into Pensacola, the lumber road being also improved by the new company. There is a branch of 11 miles from a point near Museogee, Fla., northwest to Gateswood, Ala., and this is expected to be extended finally to connect with the Louisville & Nashville Railroad at Bay Minette, Ala. There is also a connection from Cantonment to the Louisville & Nashville Railroad by a branch about a mile long.

For its terminals at Pensacola the company has purchased the larger part of two city blocks, this being in addition to and adjoining a tract of land given to the company by the city for a passenger terminal. It has also been granted a frontage of about 1500 feet on the water for a tidewater terminal, with a total of about 188 acres of land. Each of the five docks will be 100 feet wide and 1225 feet long. Two of them will have open piers for the transshipment of lumber, two of them will have sheds for general service, and the other will be a coaling pier. There is 30 feet of water in the docks.

Megargel & Co., bankers, of New York, are the fiscal agents of the line.

New Equipment, Rails, Etc.

Atlantic, Dupont & Western Railroad, Dupont, Fla., will be in the market for three locomotives, 30 flat cars, 10 box cars, a baggage car and 2 passenger cars; also for 20 miles of relaying rails, 60-pounds, and other equipment.

Grandin Lumber Co. has ordered a consolidation locomotive from the Baldwin Works, Philadelphia.

San Antonio & Aransas Pass Railway is reported in the market for 500 box cars.

Illinois Central is reported about to purchase 1000 freight cars.

Louisville & Nashville Railroad, says a market report, will purchase 4000 tons additional of bridge steel.

Wabash Railroad has ordered 20 Mikado locomotives from the American Locomotive Co., New York.

Baltimore & Ohio is reported getting prices for 500 freight cars.

Charleston (S. C.) Consolidated Railway has ordered five cars from the Cincinnati Car Co.

Frisco system has ordered 10 all-steel baggage cars from the American Car & Foundry Co.

Southern Pacific has ordered 30 locomotives from the Baldwin Works.

Memphis Street Railway has ordered

15 trailer cars from the J. G. Brill Company, Philadelphia.

Baltimore & Ohio has ordered bridge steel thus: 780 tons from the Pennsylvania Steel Co., Steelton, Pa.; 700 tons from the Mt. Vernon (O.) Bridge Co.; 200 tons from the American Bridge Co., New York.

San Antonio & Aransas Pass Railway has ordered 10 consolidation locomotives from the Lima (O.) Locomotive Works.

Kansas City Southern Railway is reported getting prices for 1000 coal cars, 100 ballast cars and 200 automobile cars.

Burlington system is reported to have ordered 25 Mikado locomotives from Baldwin's.

Dallas-Waco Interurban.

J. F. Strickland of Dallas, Tex., president of the Southern Traction Co., is quoted saying that construction is rapidly progressing on its line from Dallas via Ferris, Waxahachie, Hillsboro and west to Waco, Tex., with a branch from Ferris via Ennis and Rice to Corsicana, Tex., altogether 135 miles, of which 100 miles comprises the line from Dallas to Waco. The company also owns and operates the Waco street railway, 17 miles long. The overhead trolley system will be used and power will be furnished by the Texas Power & Light Co., the principal plant being near Waco. The Southern Engineering & Construction Co., 1312½ Commerce street, Dallas, Tex., is the general contractor. Burr Martin is president of this company, and Luther Dean is its chief engineer.

To provide funds for the construction of the road a mortgage dated June 1 has been filed to secure not more than \$7,500,000 of first mortgage sinking fund 5 per cent. 30-year bonds. The St. Louis Union Trust Co. is trustee. There are now \$5,000,000 of bonds issued under this mortgage; also \$500,000 of second mortgage 30-year 5 per cent. bonds, which are subject to redemption at the option of the company at 102½. The cost of the railroad is placed at \$5,000,000. The rest of the bonds are to be held for extensions and improvements under certain restrictions.

Atlantic, Dupont & Western.

L. G. Williams, Dupont, Fla., general manager of the Atlantic, Dupont & Western Railroad, writes that the company now has 18 miles of narrow-gauge line to be widened and six miles additional built. It has its own forces and help for the changes necessary. The line will run from Dupont, Fla., to a connection with the Atlantic Coast Line, and also to the St. Johns River via the Haw Creek farming lands. The country is level.

The company intends building 200 houses for farmers, and will purchase materials for their construction. It will also buy 3 locomotives, 30 flat cars, 10 box cars, a baggage car and 2 passenger cars, besides 20 miles of 60-pound relaying rails and other equipment.

H. E. Black is president; V. W. B. Hedgepeth, vice-president; F. W. Wellerton, treasurer; H. R. Van Dusen, secretary, all of Scranton, Pa. A. B. Dunning of Dupont, Fla., is chief engineer. Others mentioned as interested include Wm. L. Connell, T. J. Foster, E. H. Lawall, J. K. Griffith and L. H. Dresbach of Scranton; C. W. Miller and W. R. Wood of Indianapolis, and C. B. Thigpen of Dupont.

Carolina & Georgia Railway.

James U. Jackson, vice-president of the Augusta-Aiken Railway & Electric Corporation, is quoted in a report from Augusta, Ga., as saying that construction is assured for the proposed Carolina & Georgia

gia Railway just chartered in South Carolina, and of which he is one of the incorporators; furthermore, that actual work will soon be started. He declined to state whether the line would be operated by electricity or by steam, but it is expected that electric power will be adopted and that the Augusta & Aiken Electric Railway will form part of the route.

Another report from Columbia, S. C., quotes R. H. Welch, attorney for the incorporators of the new railroad, as saying that the line will run from Columbia to Augusta via Warrentonville, and that the route has been determined. It is possible that part of the right of way will be acquired from the former Columbia & Augusta Railway Co., which some time ago proposed to build a line between the two cities.

It is anticipated that when the subscription books open on September 26 that all the stock in the company will be taken.

Mississippi Northwestern.

Chas. E. Chidsey, Pascagoula, Miss., writes that a meeting was held there recently to consider the proposition of W. G. Seaver of Chester, Pa., representing the Mississippi Northwestern Railroad Co., which proposes to build a line to be known as the Pine Belt Route from Omaha, Neb., to the Gulf of Mexico, with Pascagoula as its terminal port. Rev. John B. Chipman presided, with Mr. Chidsey as secretary. A resolution offered by F. H. Lewis was adopted to the effect that Pascagoula would guarantee a terminal 1500x3500 feet at or near the mouth of the Pascagoula River and on the east side thereof; also right of way from Pascagoula through Jackson county upon satisfactory guarantee being given by the railroad company that its line will be constructed there. This guarantee is in accordance with the State law. A committee composed of J. J. Paquette, F. H. Lewis, W. G. Gautier, F. L. Lindinger and Capt. S. H. Buggs was appointed to confer with Mr. Seaver and take action. He is quoted as saying that the company would pay for terminals in 5 per cent. preferred stock.

Chalmette Terminal.

A report from New Orleans says that the Frisco system has awarded a contract to W. M. Wren of that city for the construction of a great part of the work necessary for the completion of the company's slips at the Chalmette docks. This work will cost about \$300,000, but the entire amount of construction there will cost, it is estimated, about \$750,000. The Chalmette terminals are owned jointly by the Frisco and the Southern railroads. A. D. Lightner is president of the New Orleans Terminal Co., which controls them.

Mr. Lightner says that the Wren contract applies to the driving of grillage and the erection thereon of concrete piers carrying reinforced concrete floors of the one story steel and the two story steel sheds. These are, respectively, 150x1300 feet and 150x1680 feet in dimensions.

Other work to be done at Chalmette includes the erection of a grain elevator of 500,000 bushels capacity and the dredging of slips. It will be under the supervision of L. H. Evans of Chicago, an engineer engaged especially for this work.

M., K. & T. Gets Wichita Route.

A report from Austin, Tex., says that the formal transfer to the Missouri, Kansas & Texas Railway system of the properties of the Wichita Falls Route is announced. This covers the Wichita Falls & Southern Railway and the Wichita Falls & Northwestern Railway, and of which J. A. Kemp is president and Frank Kell vice-president and general manager,

both at Wichita Falls, Tex. The Wichita Falls & Northwestern is now being completed to a terminus in Beaver county, Okla., and it is further stated that the branch now running from Altus, Okla., to Wellington, Tex., will be extended westward more than 100 miles across the Texas Panhandle. There is also proposed an extension of the Wichita Falls & Southern Railway to Dublin, Tex., connecting there with the Texas Central line of the Missouri, Kansas & Texas system. M. M. Cook is chief engineer at Wichita Falls.

Batesville & Northeastern.

Samuel Deener of Batesville, Ark., secretary of the Batesville & Northeastern Railroad Co., says that it proposes to build 50 or 60 miles of line northeast from Batesville to connect with the Frisco system. It may also connect with the St. Louis, Iron Mountain & Southern Railroad. The country along the route is principally rolling for the first 30 miles from Batesville, but on the eastern end of the line is fine bottom land. The road will have a large tonnage, among the business offering being the output of manganese and phosphate mines, besides that of the Pfeiffer quarry, which produces a fine oolitic limestone. T. J. Walbert, manager of the Mt. Olive Stave Co., is president of the road; R. W. Earnhart is vice-president and C. W. Maxfield treasurer. Among others interested are John Q. Wolf and F. P. Albright of Batesville.

Texas, Gulf & Northern Plan.

R. E. Davis, chief engineer, Midland, Tex., says that bids will be received about October 1 for the construction of 60 miles of line north of Midland for the Texas, Gulf & Northern Railway Co., which proposes to build altogether 500 miles of line from Tucumcari, New Mexico, to San Antonio, Tex., via Midland. Survey is in progress, and the 60 miles referred to is located. The maximum grade will be six-tenths of 1 per cent, and the maximum curve 2 per cent. Nearly all of the country traversed is level. Connections will be made with the Santa Fe system, the Rock Island, the Texas & Pacific and the Kansas City, Mexico & Orient railroads, besides five trunk lines at San Antonio, Tex. J. A. Underwood is president; W. N. Sadler, vice-president and general manager, and M. C. Le Master, secretary and treasurer. Amarillo, Tex.

Birmingham to Chattanooga.

W. W. Shortridge, vice-president and secretary of the Birmingham & Chattanooga Railroad Co., Boaz, Ala., says that the line will be operated by both steam and electricity. It will be 150 miles long from Birmingham to Chattanooga via Oneonta and Boaz. There will be five bridges, but no tunnels. The route lies through rolling country. The date is not yet set to receive bids for construction. Connection will be made with railroads thus: At Wauhatchie with the Nashville, Chattanooga & St. Louis, the Alabama Great Southern and the Southern Railway; at Boaz with the Nashville, Chattanooga & St. Louis, and at Oneonta with the Alabama Mineral Railway of the Louisville & Nashville system. J. M. Spradlin is president and treasurer.

Preparing to Furnish Ballast.

Concerning their contract with the Norfolk & Western Railway to furnish ballast, W. W. Boxley & Co., Roanoke, Va., say that the quarry from which the stone will be taken will be near Pembroke, Va., and will have an output of from 2000 to 2500 cubic yards of ballast per day. The firm has closed a contract for one No. 12 breaker and two No. 6 breakers of Allis-Chalmers make. They will use one steam

shovel for the present, and probably two shovels later on. From 100 to 150 laborers will be employed. They have not yet purchased either compressor, boilers or drills.

LARGE CONTRACT AWARDED.

Keneffek, Hoffman & Co. Will Build Norfolk Southern Extension.

Keneffek, Hoffman & Co. of Kansas City have been awarded the contract to build the extension of the Norfolk Southern Railroad from Mt. Gilend to Charlotte, N. C., and the grading, concrete and trestle-work will be sublet at the Selwyn Hotel, Charlotte, N. C., about the middle of next week.

The work will run about 1,500,000 yards of grading, of which about one-half is classified material, about 10,000 yards of masonry and about 3,000,000 feet of timber in the trestle.

It is stated that there is some very fine work for both steam shovels and teams.

Womble to Mt. Ida.

G. H. Spear, Jr., of Mt. Ida, Ark., vice-president of the Mt. Ida, Ouachita Valley & Hot Springs Railroad Co., writes that the line will be 10 miles long from Womble to Mt. Ida. There are no streams to bridge; only ravines between the two points. Connection will be made near Womble with the St. Louis, Iron Mountain & Southern Railroad. The route is through rough and rolling country. G. Cox is president and Earl Witt secretary-treasurer, both at Mt. Ida. Col. C. C. Godman of Fort Smith, Ark., is general manager.

New Coal Lines in Kentucky.

According to a report from Richmond, Va., where the headquarters of the road are situated, the Chesapeake & Ohio Railway will early next year begin construction of two coal branches in Kentucky, and which will total from 25 to 50 miles of new construction. While details are not announced, it is probable that one of the branches will be that for which a charter was obtained some time ago, proposing a line from the Big Sandy division at a point not far below Elkhorn City and to follow the Levisa Fork of the Big Sandy River into Virginia, about 35 miles.

Is Ready for Traffic.

The Manistee & Repton Railroad Co. has completed 4½ miles of new line into Monroeville, Ala., and is now in a position to handle freight at that point. J. A. Kauffman is vice-president and general manager at Manistee, Ala.

LUMBER

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

BYRD-MATTHEWS LUMBER CO.

Capitalized at \$1,000,000, to Develop 80,000 Acres of Timber, Build Big Plant, Etc.

Referring to his company's plans, B. F. Young, Santee, Ga., president of the Byrd-Matthews Lumber Co., recently reported incorporated at Gainesville, Ga., with \$1,000,000 capital stock, writes to the MANUFACTURERS RECORD in part as follows:

"Eighty thousand acres of timber land being developed. Estimated quantity of lumber this timber will produce is in the neighborhood of 800,000,000 feet, which will consist principally, in about equal proportions, of white pine, chestnut, oak and poplar. Logging equipment will consist of 10 miles of standard logging road, three 30-ton Shay locomotives, two Amer-

ican log loaders, two Lidgerwood skidders and about 25 teams and 30 or 40 standard-gauge flat cars. All logs will be transported to plant by rail and stored in pond which will contain about six acres. This pond is now under construction, and should be completed within the next 30 to 40 days. Expect to begin active logging operations during October.

"Dimension of sawmill building 64x172 feet, with concrete foundation and frame construction, with latest improved Filer & Stowell machinery, with all necessary loaders and kickers for the two log decks. Two eight-foot band mills suitable for 14-inch saws, two 72-inch gang edgers, automatic overhead trimmer and slasher and all other necessary equipment which is required for a modern up-to-date plant. Power-house to be constructed of reinforced concrete, dimensions 65x75 feet, equipped with Filer & Stowell Corliss engine, 26x48, five 72x18 Casey & Hedges high-pressure boilers. Three drykilns of reinforced concrete construction, 22x104 feet each. One dry lumber shed, 72x200 feet. One finished lumber shed, 64x200. Planing-mill building, 64x200, and all the necessary planing-mill machinery which is required for a first-class up-to-date plant, including hardwood flooring machinery. All planing-mill machinery will be driven by individual motor drives. Sizes not determined up to the present time. Lumber-yard equipment will consist of one locomotive and 20 flat cars. Lumber yard to be built of concrete and steel rails (that is, lumber foundations). All lumber will be handled direct from assorter to lumber yard on flat cars. Water-works will consist of one 1000-gallon-per-minute pump. One 200,000-gallon reservoir, located on a mountain at a suitable height to give us 100 pounds head pressure in the plant and lumber yard at all times. The above will all be built strictly in accordance with the insurance underwriters' specifications. Sawmill, planing mill, power-house, machine shops, drykilns, lumber sheds will all be equipped with automatic sprinklers. Plant is not being built by contract. Capacity will be 250,000 feet per 20 hours. Plant should be in operation during February, 1913."

Great Eastern Lumber Co.

The Great Eastern Lumber Co. of Savannah has plans for its timber development and accompanying construction on the Savannah River west of that city. It intends to erect a 256x70-foot building to be equipped with machinery for a daily capacity of 150,000 feet of lumber, and will build six drykilns, the make of which has not been determined. Its other construction will include 100x100-foot power and boiler-house, water-works, sewer system, roundhouse and machine shops for the seven-mile railway and branches, plant for electric light and power, 400 cottages for the mill village, etc. It is also proposed to develop three miles of water front for docks, etc. The mill village will be called Port Wentworth, and the railway portion of the enterprise will be incorporated as the Savannah Railroad & Terminal Co. The organization of the Great Eastern Lumber Co. with \$1,000,000 capital stock, its purchase of timber land, plans for development and building mills, etc., were announced last June by the MANUFACTURERS RECORD. George K. Wentworth of Chicago is president and C. E. Gill of Philadelphia is general manager.

The Rockwood (Tenn.) Mills has plans and specifications for the erection of its previously-announced addition. This building will be two stories high with basement, 150x200 and 250 feet, the architects being Lockwood, Greene & Co. of Boston.

Construction Department

TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and in some items it is found advisable to make statements as "it is reported" or "rumored," and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should always be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new concerns will occur.

WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter written specifically about the matter reported will receive better and quicker attention than a circular. In most instances a return postal card or addressed and stamped envelope should be enclosed with letter.

In correspondence relating to information published in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$25 per year. On all advertising contracts in the Manufacturers Record for three months or longer a subscription to the Daily Bulletin is included for the contract period.

BRIDGES, CULVERTS, VIADUCTS

Ark., Batesville.—Batesville & Northeastern Railway Co., S. Deener, secretary, will construct small bridge across Strawberry River and larger bridge over Black River; also several small bridges over creeks.

Ark., Pine Bluff.—Bridge Commission awarded contract at \$605,000 to Roemheld Construction Co., Chicago, Ill., to construct steel bridge across Arkansas River; seven spans; 3000 feet long, including approaches; Strauss lift to be furnished by Strauss-Bascule Company, Chicago, Ill. (Previously mentioned.)

Fla., Crystal Springs.—M. R. Francesco of Zephyr Hills, Fla., is taking level and profiles for proposed construction of bridge.

Fla., St. Augustine.—St. John's Electric Co. will construct substantial trestle across San Sebastian River; will also install new drawbridge across Matanza River.

Ky., Boonsboro.—Madison and Clark counties contemplate constructing 1000-foot span across Kentucky River, connecting Madison and Clark counties; County Judge Evans, Winchester, Ky., may be addressed.

La., Lake Providence.—East Carroll parish will construct nine iron bridges according to

plans and specifications on file with C. S. Wyly, secretary; bids received August 30. (See "Machinery Wanted.")

Okl., Wagoner.—Wagoner county will construct four recently-noted bridges; one over Arkansas, two over Verdigris and one over Grand rivers; bids received until 5 P. M. October 5 at office of J. E. McElroy, County Clerk; plans and specifications on file after September 15 in office of County Clerk and of K. K. Kellen, County Engineer. (See "Machinery Wanted.")

Tenn., Chattanooga.—Birmingham & Chattanooga Railroad Co., J. M. Spradlin, president and treasurer, Boaz, Ala., states plans will be ready in about two months for iron bridges across Tennessee River at Chattanooga, Warrior River at Sneads and across several creeks. (Recently noted.)

Tex., Bartlett.—Bell County Commissioners contemplate constructing steel to replace wooden structure at Alligator Crossing.

Tex., El Paso.—City contemplates arranging with Mexican Government for construction of jointly-owned bridge connecting El Paso and Juarez; \$100,000 structure; three arches; reinforced concrete; driveway; footwalks; plans by City Engineer Herbert Nunn.

Tex., Fowerton.—La Salle county awarded contract to Missouri Valley Bridge & Iron Co., Dallas, Tex., at \$160 to construct steel highway bridge across Frio River; W. H. Sylvester, engineer, Cotulla, Tex. (Recently noted.)

Va., Independence.—State Highway Commission, P. St. J. Wilson, Commissioner, Richmond, Va., opens bids September 6 for constructing bridge across Elk Creek in Grayson county; plans and specifications on file in clerk's office at Independence and Mr. Wilson's office. (See "Machinery, etc., Wanted.")

Va., Fries.—Grayson county will construct

crease daily capacity from 14,000 to 54,000 bricks.

N. C., Coats—Bricks.—Coats Brick Co., authorized capital \$50,000, incorporated by P. F. Pope, N. T. Patterson and L. D. Overly.

Tex., Ginger.—Frazier Brick Co., Dallas and Ginger, Tex. (recently noted incorporated, \$50,000 capital stock), takes over plant of Frazier-Meyer Brick Co.; no improvements contemplated.

Tex., Winfield.—Pottery.—Winfield Pottery Co., capital stock \$60,000, incorporated by P. E. Miller, A. N. Holmes and J. C. Glass.

COAL MINES AND COKE OVENS

Ala., Pell City.—Sumter Cogswell and R. A. Martin are reported as planning to develop several hundred acres coal land.

Ala., Pell City.—E. W. Hays is reported as interested in plan to develop several thousand acres coal land.

Ala., Tuscaloosa.—Blair Coal Co. and R. E. Rodes of Tuscaloosa, Erskine Ramsey and W. E. Leake of Birmingham, Ala., and J. D. McInnis of Meridian, Miss., and associates are reported as organizing \$1,000,000 corporation to buy and develop 4000 acres coal land on Warrior River; plans are said to involve expenditure of \$500,000 for preparing lands, opening mines, erecting houses, constructing coal washers and tipples, etc., for daily capacity of 2000 to 2500 tons coal; F. G. Blair is named as to be president and manager; Mr. Blair writes to Manufacturers Record that negotiations do not justify an authentic report.

Kentucky.—English and Dutch capitalists are rumored to have purchased for development extensive tract of coal and timber land at \$5,000,000 from B. L. Hall of Valdosta, Ga., and Col. S. K. Ford of Thelma, Ga.

Ky., Hazard.—Slomp Coal Co., James B.

stock \$5000, incorporated by H. L. Harrell, John A. Carlton, G. F. Taylor and others.

Ga., Greensboro.—Farmers' Gin Co., capital stock \$3000, incorporated by H. M. Spinks, John T. Boswell, R. L. McCommons, J. L. Wheeler and others.

Ga., Norman Park.—Norman Park Gin Co., capital stock \$10,000, incorporated by R. L. Norman, J. P. Byrd, G. F. Taylor and others.

N. C., Cary.—Wake Cotton Oil Manufacturing Co., J. M. Templeton, Jr., will erect cotton gin, etc. (See "Cottonseed Oil Mills" and "Machinery Wanted.")

N. C., Hamlet.—Hamlet Milling & Ginning Co., authorized capital \$50,000, incorporated by W. R. Land, E. N. Rhodes, C. B. Terry, L. R. Terry and others.

Tenn., Nashville.—Edith Gin & Milling Co., capital \$3000, incorporated by E. M. Hunt, T. L. Garratt, S. Y. Garratt, S. T. Kirkpatrick and G. M. Glynn.

Tex., Coolidge.—Farmers' Gin Co., capital stock \$15,000, incorporated by S. E. McClellan, J. A. Johnson and G. L. Vinson.

Tex., Grover.—Williams & Anderson will build 2-stand 70-saw cotton gin.

Tex., Pine Ridge.—D. D. Dodd will build 2-stand 70-saw air-blast cotton gin.

Tex., Woodlawn.—Dr. Blalock will build 2-stand air-blast 70-saw cotton gin.

COTTONSEED-OIL MILLS

N. C., Cary.—Wake Cotton Oil Co. (recently noted incorporated with \$50,000 capital stock) will erect cottonseed-oil mill and gin; latter to comprise three buildings, 68x14x20 feet; oil mill, 105x36 feet; one story; frame and sheet iron; capacity of mill, 30 to 40 tons of cottonseed oil; construction by company; J. M. Templeton, Jr., president; P. D. Gray, vice-president; T. Ivey, secretary-treasurer; W. W. Satterthwaite, engineer in charge. (See "Machinery Wanted.")

Tex., Athens.—Home Cottonseed Oil Co. organized to build cotton-oil mill of 60 tons daily capacity.

Tex., Nacona.—Nacona Cotton Oil Co., capital stock \$30,000, incorporated by L. A. Hodges, F. S. Wilson and W. H. Gentry.

Tex., Sherman.—Geo. D. Miller, secretary-treasurer and manager of Worth Refining Co. (recently noted organized and incorporated), states new company is reorganization of Grayson Oil & Cotton Co.; probably commence operation soon; principal plant and general office at Sherman; increase capacity to about 1500 barrels; manufacture salad and cooking oils, soap and other products.

DRAINAGE AND IRRIGATION

Fla., Plant City.—City votes in November on bond issues to include \$5000 for drainage. Address The Mayor.

N. C., Concord.—Board of Drainage Commissioners, Big Cold Water Drainage District, John A. Scott, secretary, will receive bids until September 17 for ditching Big Cold Water Creek. (See "Machinery, etc., Wanted.")

Tenn., Covington.—J. R. Hill, chairman, and F. R. Fisher, secretary, are interested in plan to form district for draining 12,000 acres land; J. A. Green, engineer, has approved plan.

Tex., Alvin.—Brazoria County Drainage District No. 3, T. W. Carlton, secretary, receives bids until September 15 for 111,055.39 cubic yards dry excavation (open ditches), 23,000 cubic yards wet excavation (improvement of sloughs), 8866 cubic yards dry excavation, 5390 feet storm sewers; maps, profiles, specifications, etc., on file with secretary, from whom copies can be obtained; A. R. Leckie, drainage engineer; recently noted as receiving bids until August 15. (See "Machinery Wanted.")

Tex., Laredo.—J. P. Cranke and associates will expend \$30,000 to construct canals for draining 640 acres of land; cost of machinery, \$20,000; no bids. (Recently noted.)

Tex., Pearsall.—Artesian Farms Co. (recently noted incorporated under "Land Improvements" with \$6000 capital stock) will drain 480 acres of land eight miles south of Pearsall, in Frio county; improvements include 8-inch artesian well, 1700 feet deep, clearing of land, ditches and flumes, installing rotary pump and gasoline engine; cost \$25,000; well contract let; E. A. Lilly, pres-

PROPOSAL ADVERTISEMENTS

IN THIS ISSUE ARE

PUBLISHED ON PAGES 76 and 77

In order to secure best bids from leading engineers, contractors and investment houses, the proposal advertising columns of the Manufacturers Record are invaluable.

Rate 20 cents per line per issue.

When Proposal Advertisements cannot be sent by mail in time to secure insertion before date for opening bids, please wire advertisement copy collect by Day Letter

Proposal Advertising forms close Wednesday, 10 A. M.

87-foot span across Elk Creek; bids opened September 6; plans and specifications on file with clerk at Independence, Va., and at office of P. St. J. Wilson, State Highway Commissioner, Richmond, Va. (See "Machinery Wanted.")

Va., Warm Springs.—Bath County Board of Supervisors will construct two steel bridges; 60 and 120-foot spans; bids received until September 10; F. L. La Rue, Clerk. (See "Machinery Wanted.")

CANNING AND PACKING PLANTS

Ark., Ravenden Springs.—Thomas H. Benton, Memphis, Tenn., is reported as to build cannery.

Ark., Lepanto.—W. C. Dawson awarded contract to J. A. Percy, Lepanto, to erect canning plant; 32x40 feet; frame; ordinary construction; machinery purchased; daily capacity, 200 cases tomatoes. (Recently noted.)

N. C., Salisbury.—J. H. Warburton, T. D. Brown and A. H. Snider are interested in plan to organize \$15,000 canning company; plans not determined.

Tex., Crystal City.—M. L. Williams is chairman of committee planning company to establish cannery. (See "Electric Plants.")

Tex., Fort McKavett.—William Black contemplates establishing plant to can vegetables, including sweet potatoes.

CLAYWORKING PLANTS

Ala., Florence.—Bricks.—J. Huer will, it is reported, build brick works.

Fla., Plant City.—Bricks.—Roux Composite Brick Co. will install machinery to in-

crease local representative, is reported as locating coal properties for development.

Ky., Paducah.—Yelzer-Gardner Coal Co., capital \$5000, incorporated by J. P. Yelzer, F. L. Gardner and J. L. Gardner.

Okl., Oklahoma City.—Quinton Coal & Fuel Co., capital \$5000, incorporated by E. J. Deu Pree, Warren E. Watkins, M. K. Cruce, Charles W. Gunter and W. R. Kinney.

Va., Honaker.—Flat Rock Coal Co., capital stock \$50,000, organized by H. V. and W. O. Brothers; leased and will develop 500 acres coal land; now planning to construct switches, build tipples, open mines, etc.

CONCRETE AND CEMENT PLANTS

Okl., Tulsa.—Concrete Pipe.—Tulsa Concrete Pipe Co. is to be organized to establish plant for manufacturing concrete pipe; erect 60x120-foot building and equip with necessary machinery; invest \$25,000 for initial plant.

COTTON COMPRESSES AND GINS

Ark., Blytheville.—The Blytheville Compress Co., capital stock \$60,000, incorporated with E. M. Lewis, president; Charles E. Durell, vice-president; J. G. Sudbery, secretary-treasurer.

Ark., Hope.—D. Gordon Cook will build eight-stand cotton gin.

Ark., Hope.—C. H. Cox & Sons will build three-stand cotton gin.

Ala., Leeds.—W. Rufus Little will build cotton gin; has ordered machinery.

Ark., Hamburg.—Hamburg Gin Co. will rebuild cotton gin and grist mill reported burned.

Ga., Ellenton.—Ellenton Gin Co., capital

dent; Mason Maney, secretary-treasurer. (See "Machinery Wanted.")

Tex., San Angelo.—Charles B. Metcalfe will construct concrete dam 400 feet long and 12 feet high, reinforced by several buttresses, including one extending down stream 35 feet; to irrigate 400 acres.

ELECTRIC PLANTS

Ala., Tuskegee.—Tuskegee Normal and Industrial Institute will build central heating and lighting plant; 192x112-foot power-house and coal bunker; concrete construction; machinery will include boilers, engines, electrical generators, motors, transformers, etc.; bids received September 24; plans and specifications at office of R. B. Taylor, director of industries, Tuskegee; Walter G. Franz, consulting engineer, 1709 Union Trust Bldg., Cincinnati, O.; Builders and Traders' Exchange, Birmingham, Ala., and Contractors and Dealers' Exchange, 826 Perdido St., New Orleans, La.; recently noted as to receive new bids. (See "Machinery Wanted.")

Fla., Brooksville.—Brooksville Light & Power Co. organized with \$50,000 capital stock to take over Brooksville ice, light and water plants; will make improvements by extending water mains, building 1,000,000-gallon standpipe for reserve supply, etc.

Fla., Winter Garden.—Winter Garden Light & Water Co. incorporated with capital stock \$20,000; W. H. Reams, president; D. McKinnon, vice-president; A. W. Hurley, secretary-treasurer. (See "Water-Works.")

Ga., Bowden.—City votes September 28 on \$8000 bonds to build electric plant; \$8000 to install water-works and \$4000 to improve streets; W. T. Beck, Mayor pro tem. (See "Water-Works.")

Ky., Louisville.—Kentucky Utilities Co., capital stock \$2,000,000, incorporated by W. R. Watson, Charles J. Rueblich and L. Earl Powell, all of Chicago; to operate electric, gas, water, heating and other public utilities.

Ky., Shelbyville.—Middle West Utilities Co., Chicago, Ill., acquired Shelbyville Water & Light Co. properties; contemplates making improvements.

Ky., Williamstown.—City granted franchise to J. E. Shoop of Williamstown Electric Light Co. franchise to construct electric-light plant; machinery, to include 55-horse-power oil engine and 40-kilowatt generator, said to have been purchased. (Recently mentioned as contemplating building plant.)

La., Lake Providence.—City will install additional machinery in electric-light plant, including dynamo and engine; bids received until September 24; William T. Bell, Mayor. (See "Machinery Wanted.")

Md., Baltimore.—Gas.—Consolidated Gas, Electric Light & Power Co., Baltimore and Calvert Sts., contemplates increasing capitalization from \$11,000,000 to \$45,000,000 for improvements proposed to electrical division.

Miss., Sardis.—City is considering plan to install electric-lighting system in connection with present water-works; J. A. Davis, manager of water-works.

Mo., Maryville.—Maryville Electric Light & Power Co. has not completed definite arrangements for building electric-light plant. (Recently noted.)

N. C., Smithfield.—City awarded contract to B. C. Copeland, Asheville, N. C., for electric-light construction; bids recently noted. (See "Water-Works.")

N. C., Spencer.—City is having survey made by J. B. McCrary Company, Atlanta, Ga., for municipal electric-light plant. (Recently mentioned.)

Tex., Crystal City.—M. L. Williams, J. A. Jennings, O. A. Stubbs, M. L. Harkey and John Pegues are committee to formulate plan for organizing company to establish electric-light plant, ice factory and cannery.

Tex., Port Lavaca.—Port Lavaca Industrial Co., capital stock \$75,000, incorporated by W. J. Chapman, A. E. Dasbough and W. T. Moore; purchased Shell & Co. cotton gin, Farmers' Gin, Electric Gin, Port Lavaca Ice, Light & Power Co., Shell & Co. electric plant.

Tex., Houston.—Houston Electric Co. has plans for enlargements, etc.; will erect substation of brick, steel and concrete; 32x47x43 feet, costing \$9000; building contract awarded to Stone & Webster Engineering Corporation, 47 Milk St., Boston, Mass.; will install machinery to include 500-kilowatt motor, generators, switchboard, etc., costing \$40,000; other apparatus, etc., will increase expenditure to \$150,000; machinery contracts awarded. (Recently

noted as to invest \$150,000 for additional power facilities.)

Tex., Pleasanton.—Pleasanton Ice Co. will, it is reported, install electric-lighting system.

Tex., Trinity.—Trinity Power Co., capital stock \$4000, incorporated by H. H. Thompson, W. A. Bell and Jacob Embry.

Tex., Rogers.—G. L. Jones, M. V. Bauch and W. D. Wilson are interested in plan to install lighting system, securing electricity from Temple Light & Power Co. of Temple, Tex.

Tex., Stanford.—Stanford Water, Light & Ice Co. contemplates installation of machinery to provide day-service electricity.

Va., Pulaski.—City plans constructing 1500 horse-power steam-driven electric plant to replace present establishment of about 500 horse-power. Address The Mayor.

FERTILIZER FACTORIES

N. C., Benson.—Banner Fertilizer Co., authorized capital \$50,000, incorporated by Alonzo Parrish, J. H. Godwin, W. D. Boon, J. H. Boon and R. T. Spence.

FLOUR, FEED AND MEAL MILLS

Ark., Hamburg.—Hamburg Gin Co. will rebuild grist mill and cotton gin reported burned.

Ky., Concord.—J. W. Mann and C. A. Taylor will build mill with daily capacity 150 bushels flour.

Tex., Aubrey.—Aubrey Milling Co. increased capital stock from \$10,000 to \$20,000.

Tex., Denison.—Denison Mill & Grain Co. increased capital stock from \$50,000 to \$75,000.

FOUNDRY AND MACHINE PLANTS

Ga., Atlanta.—Castings, etc.—Parks-Trenary-Houchin Foundry Co. (recently noted incorporated, \$50,000 capital stock) purchased foundry and equipment of Hancock-Holmes Foundry and Machine Works; plant in operation when bought; new company has completed erection of pattern shop and installed machinery, made some repairs and is placing electric crane; J. R. Houchin, president; W. F. Trenary and A. C. Parks, vice-presidents; E. S. Harris, secretary-treasurer.

Ky., Louisville.—Machinery.—Universal Swing Joint & Machine Co. purchased Kentucky Gear & Machine Co. plant; will operate to manufacture new device; B. J. Jansing, president; John Bridges, vice-president and general manager; John H. Hille, treasurer. (Recently reported incorporated with \$100,000 capital stock.)

Md., Baltimore.—Pulverizers.—Muth Roll Pulverizer Co., capital stock \$5000, incorporated by Joseph H. Patterson, 2119 Woodberry Ave.; Joseph C. Manning, Joseph I. Rosenberg and Wm. O. Ford.

N. C., Siler City.—Machine Shop.—F. W. Hadley will erect 80x30-foot building and equip for machine shop.

Tenn., Jackson.—Cotton Gins.—Tennessee Improved Cotton Gin Co., capital stock \$20,000, incorporated by P. Rand, L. N. Hine, L. F. Jackson and John Myers.

GAS AND OIL DEVELOPMENTS

Ky., Paintsville.—Sullivan-Mayo Oil & Gas Co. awarded contract to C. Lawrence to drill first well on 100-acre lease; W. I. Mayo, president; F. M. Williams, vice-president; George W. Gray, secretary; John E. Buckingham, treasurer. (Recently noted incorporated with \$10,000 capital stock.)

Ky., Sharpsburg.—C. M. Lambert, E. J. Secrets and others will organize company to drill for gas and oil.

Okla., Buffalo.—Pacific Oil & Gas Co., capital \$10,000, incorporated by O. L. Zork, R. W. Smith, E. M. Miller, E. C. Johnson and J. L. Griffiths.

Okla., Canadian.—Gibson Creek Oil Co., capital \$12,000, incorporated by Falm G. Gillock, D. L. Roe, J. D. Fulton, L. F. Copeland, M. W. Priddy and others.

Okla., Chickasha.—Rock Creek Oil & Gas Co., Box 303, R. M. Cochran interested (recently noted incorporated, \$5000 capital stock, by H. C. McKay and others), has one well drilled to depth of 1480 feet; needs machinery. (See "Machinery Wanted.")

Okla., Holdenville.—Southwestern Oil Co., capital \$1000, incorporated by John W. Gilliland, W. B. Key and R. W. Widner.

Okla., Muskogee.—Hoppy-Toad Oil & Gas

Co., capital \$5000, incorporated by William O. Carr, J. Garfield Buell and C. E. Shoensfelt.

Okla., Oklahoma City.—Mid-Continent Company buys and sells oil property; company writes that it has \$3,000,000 worth of producing wells and 100,000 acres of undeveloped land; branch offices, London, England; Paris, France, and Berlin, Germany; Fred Sutton, corresponding secretary. (Recently noted incorporated with \$100,000 capital stock.)

Okla., Perry.—Helton Oil Co. (recently noted incorporated with \$7500 capital stock by F. G. Moore and others) will drill oil wells; bids opened September 10. (See "Machinery Wanted.")

Okla., Tulsa.—Choska Oil & Gas Co., capital stock \$20,000, incorporated by F. C. Hays and W. R. Gordon of Tulsa and Charles W. Floyd of Memphis, Tenn.

Okla., Tulsa.—Oil Production Co., capital \$10,000, incorporated by H. F. Aby, John R. Woodward and R. E. Weaver.

Okla., Tulsa.—Daisy Oil Co., capital \$5000, incorporated by A. R. Thomas, Fred D. Oiler of Tulsa and N. M. Phipps of Jenks, Okla.

Okla., Tulsa.—Saddle Oil Co., capital \$5000, incorporated by Max Lebow, Jacob M. Stekol, Robert A. Stekol, Joseph Davis and Samuel Lebow.

Tex., Fort Worth.—Texas Oil Land & Investment Co., capital stock \$150,000, incorporated by J. B. Sikes, G. H. Russell, J. F. Morris and others.

Tex., Fort Worth.—Lone Star Gas Co., W. P. Gage, vice-president and general manager, 307 First National Bank Bldg., states company has about 200 miles of piping completed and about 125 miles of 2-inch, 3-inch, 4-inch, 6-inch, 10-inch, 12-inch and 16-inch piping under construction; no stations; capital stock \$3,500,000; purchases material when needed.

Tex., Houston.—Houston Oil Co., main office St. Louis, Mo., has taken option to buy 5000 acres adjacent to present holdings of 800,000 acres owned and 100,000 leased; has purchased equipment. (Reorganization and development plans heretofore stated.)

W. Va., Rockford.—Grant Oil & Gas Co., capital stock \$8000, incorporated by C. T. Bond, W. E. Davis, A. C. Cookman and others of Lost Creek, W. Va.

ICE AND COLD-STORAGE PLANTS

Fla., Miami.—Miami Fish Co. will build fish and cold-storage plant; 200x80 feet; 12,700 square feet of floor space.

Ga., Elberton.—Atlantic Ice & Cold Storage Corporation, Atlanta, Ga., will build 30-ton ice plant; has purchased site; O. W. Deyerle, construction engineer.

Ga., Montezuma.—E. J. Wilson is erecting building for five-ton ice plant; machinery not yet purchased.

N. C., Waynesville.—Waynesville Ice & Cold Storage Co. will erect addition for cold-storage department having capacity for 3000 barrels apples.

Tex., Bay City.—San Benito Ice & Cold Storage Co., San Benito, Tex., will install auxiliary plant; has ordered oil-burning engines. (See San Benito and Harlingen.)

Tex., Crystal City.—M. L. Williams is chairman of committee planning company to establish ice factory. (See "Electric Plants.")

Tex., Harlingen.—San Benito Ice & Cold Storage Co., San Benito, Tex., will install auxiliary plant; has ordered oil-burning engines. (See Bay City and San Benito.)

Tex., Nacona.—Nacona Ice & Light Co., capital stock \$15,000, incorporated by W. D. Carmichael, C. E. Dodson and H. T. Weathers.

Tex., San Benito.—San Benito Ice & Cold Storage Co. will increase capacity of plant; has ordered oil-burning engines. (See Bay City.)

IRON AND STEEL PLANTS

Va., Roanoke.—Iron Furnace, etc.—George W. Riley and B. Nichol (for themselves and other bondholders) purchased West End Furnace Co. property, as lately reported; purchase includes furnace with daily capacity 125 tons iron, 50 acres land and buildings, 7 workmen's dwellings, lease on 50 acres iron land estimated to contain 500,000 to 2,000,000 tons ore, etc.; total price reported as about \$101,400.

LAND DEVELOPMENTS

Fla., Bayboro.—Bayboro Investment Co. and city of St. Petersburg, Fla., agreed on plans for Bayboro improvements; city will annex Bayboro, with 600 feet water front, and build docks, warehouses, etc.

Fla., Jacksonville.—Jacksonville Ferry & Land Co., capital stock \$1,500,000, incorporated with Knowlton L. Ames of Chicago, president; Harry B. Hoyt, vice-president; C. H. Whitelaw, secretary; K. L. Ames, treasurer.

Fla., Cocoa.—Florida Indian River Farms Co. incorporated with capital stock \$100,000; W. R. Baumbach, president; C. J. Miller, vice-president; J. H. Luneman, secretary; Roy E. Ashley, treasurer.

Fla., St. Augustine.—Chuluota Company incorporated to develop town to be known as "Chuluota"; J. E. Ingraham, president-general manager; M. M. Smith, vice-president; Sidney Harrison, secretary-treasurer.

Ga., Savannah.—Collins Bros. Company purchased 42 acres on Waters Rd. at \$35,000; will develop for residential section; lay water mains, construct sidewalks, build roads, erect lighting equipment, plant trees, etc.

Md., Baltimore.—Pioneer Realty & Development Co., capital stock \$12,500, incorporated by Theodore Messerschmidt, 622 Law Bldg.; Charles Gensler and August W. Schnepfe.

Mississippi.—Southern Plantation Co., authorized capital \$50,000, incorporated by S. S. Palmer, C. B. Palmer, E. S. Worthington, L. C. Shaver, A. V. Shaver and J. H. Pierong, all of Cleveland, O.

N. C., Black Mountain.—Methodist Colony organized for proposed land improvements, colonization, etc.; purchased 800 acres land; will divide into sites for cottage dwellings and other buildings; president, Jerome Dowd; secretary, Rev. W. G. Mallonee, both of Charlotte, N. C.

S. C., Greenville.—Henry T. Mills and others of Greenville and J. F. Barbee of Millersburg, Ky., plan formation of \$100,000 company to establish stock farm for horse-breeding.

N. C., Mecklenburg County.—W. H. Twitty and George P. Wadsworth of Charlotte, N. C., purchased Spencer Mountain property; latter comprises rock and other minerals, which will probably be developed.

S. C., Kershaw.—Lewis Conder of Kershaw and Henry F. Clyburn purchased L. L. Clyburn property of 8000 acres; will divide into 100 and 150-acre tracts for colonization.

Tenn., Chattanooga.—Carlin Land Co., capital \$5000, incorporated by J. W. Carlin, R. O. Carlin, Jennie Carlin, J. W. Eldridge and J. L. Foust.

Tenn., Memphis.—Avondale Land Co., N. C. Perkins, president, 71 Madison Ave., has engaged J. Paul Gaines, 1380 Faxon Ave., Memphis, as engineer in charge of suburban development; 20 acres; improvements, grading walks, graveling streets, laying water and sewer piping; cost \$15,000; date of opening bids not set. (Recently noted.)

Tenn., Memphis.—Northwestern Development Co., capital \$10,000, incorporated by A. B. Knipmeyer, G. P. Long, W. D. Muse, Herbert Zananayo and A. N. Forbes.

Tex., Farwell.—Hurley Townsite Co., capital stock \$12,000, incorporated by J. B. Stegall and others.

Tex., Port Lavaca.—Port Lavaca Industrial Co., capital stock \$75,000, incorporated by W. J. Chapman, A. E. Dasbough and W. T. Moore.

Tex., Houston.—Kendall Company organized with F. F. Kendall, president; W. E. Kendall, vice-president; Cleveland Sewall, treasurer; Seewall Myer, secretary; purchased 137 acres for \$40,000; will develop for residential section; install lighting, sewer and water facilities, construct streets and sidewalks, etc.; awarded general construction contract to Horton & Horton, Houston.

Tex., Orange Grove.—Sartain & Montgomery, San Antonio, Tex., purchased 9000 acres of Wade ranch for \$175,000; will divide into 50-acre tracts for agricultural development; also planning development of Orange Grove.

Va., Huguenot Springs.—Dr. M. O. Burke, Richmond, Va., plans organization of \$100,000 company to develop Huguenot Springs property of 240 acres for resort purposes; contemplates to construct golf links, tennis courts, etc.; to build macadam roads, erect hotel, etc.

Va., Norfolk.—Franklin Plant Farm, capital stock \$10,000, incorporated; Frank Brunton, president; A. C. Dillingham, secretary-treasurer.

Va., Norfolk.—Lincoln Cemetery, capital stock \$25,000, incorporated; W. E. Thomas, Portsmouth, Va., president; J. R. Council, vice-president-treasurer; H. G. Avery, secretary, both of Norfolk.

Va., Norfolk.—Southern Realty & Development Corporation chartered with J. C. Byars, president; J. P. Holland, secretary-treasurer.

urer; John D. Leitch, vice-president; capital stock \$100,000.

Va., Stuart.—Blue Ridge Orchard Co., capital stock \$50,000, incorporated with Jas. L. Martin of Lynchburg, Va., president; J. C. Shockley of Stuart, secretary-treasurer.

LUMBER MANUFACTURING

Ala., Entaw.—John R. Bell, Gordo, Ala., purchased 1100 acres timber land and will build sawmill.

Ala., Stewart.—Knowlton & Troupe purchased 1500 acres timber land, and will develop; erect sawmill with daily capacity 20,000 to 25,000 feet lumber.

Ark., Helena.—W. H. Denison will build sawmill and woodworking plant.

Ark., Marianna.—James E. Stark & Co., Memphis, Tenn., purchased 10,000 acres timber land.

Ark., Pine Bluff.—Sterling Lumber Co. incorporated with \$100,000 capital stock; J. H. Allen, president; W. J. Lockwood, secretary; Mrs. M. F. Rutherford, vice-president and treasurer.

Fla., Apalachicola.—Gulf Manufacturing Co. incorporated with \$100,000 capital stock; R. G. Porter, president; J. H. Hodges, vice-president-treasurer; W. P. McCormick, secretary-general manager.

Fla., Jacksonville.—Hastings Operating Co. incorporated with \$150,000 capital stock; P. L. Sutherland, president; R. R. Price, secretary.

Fla., Jacksonville.—Crescent Operating Co., capital stock \$50,000, incorporated with P. L. Sutherland, president; J. G. Reynolds, vice-president; R. R. Price, secretary-treasurer.

Ga., Dublin.—Hardwood Manufacturing Co., Smyrna, Ga., will install saw and planing mills at its Dublin branch for manufacturing vehicle rims.

Ga., Gainesville.—B. F. Young, president and general manager Byrd-Matthews Lumber Co. (recently noted incorporated with \$1,000,000 capital stock), advises from Santee, Ga., as follows: Will develop 80,000 acres, estimated to produce 800,000,000 feet lumber; 10 miles standard-gauge logging road; six-acre storage pond to be completed within next 40 days; begin logging in October; erect 64x172-foot sawmill of frame construction with concrete foundation; two eight-foot band mills; 65x75-foot power-house and three 22x194-foot drykilns, all of reinforced concrete construction; 72x200-foot dry lumber shed and 64x200-foot finished lumber shed; planing mill building, 64x200 feet, with machinery operated by individual electric motor drives and to include hardwood flooring equipment; lumber yard equipped with concrete and steel rails on lumber foundations; water-works of 1000 gallons per minute capacity; 200,000-gallon reservoir to give 100 pounds head pressure; all construction in accordance with insurance specifications; automatic sprinklers in sawmill, planing mill, power-house, machine shops, drykilns and lumber sheds; plant capacity 250,000 feet per 20 hours; operation by February; construction is not by contract. (Byrd-Matthews Investment Co., R. H. McCombs, president, St. Louis, Mo., previously noted, with allied interests, planning this and other industrial construction, and receiving estimates on machinery, etc.)

Ga., Savannah.—Great Eastern Lumber Co. has plans for timber development, erection of mill, construction of railroad, etc.; will erect 256x70-foot building and equip for daily capacity 150,000 feet lumber; build six drykilns, make not determined; construct 190x100-foot power and boiler-house; install machinery for electric light and power, construct water and sewer systems, build round-house and machine shops for seven-mile railway and branches, erect 400 cottages for mill village, etc.; timber land and plant near Savannah; new village to be called Port Wentworth; incorporate Savannah Railroad & Terminal Co. to own railway portion of proposition; plans also include developing three miles water front for docks, etc.; manager, C. E. Gill of 1119 Land Title Bldg., Philadelphia, Pa.; president, George K. Wentworth of Chicago, Ill. (Organization with \$1,000,000 capital stock, purchase of timber land, plans for mills, etc., detailed last June.)

La., Alexandria.—Progressive Lumber Co. organized with Fred Brenner, president; B. E. Gray, vice-president; W. C. Witbeck, secretary.

Ga., Savannah.—J. R. Paschall and Thos. Gresham purchased timber rights on 2755 acres for \$40,000.

La., Morehouse Parish.—Pelican Lumber Co. organized with H. H. Hutchinson of Oskaloosa, Ia., president; J. A. Hilliard of Independence, Mo., vice-president; E. D.

Davenport of Kansas City, Mo., general manager; has timber lands said to contain 100,000,000 feet timber, saw and planing mill, tram road, etc. (Recently reported incorporated under Kansas City, Mo., with \$400,000 capital stock.)

Md., Baltimore.—Yellow Poplar Lumber Co., capital stock \$25,000, incorporated by Charles N. Joyce, 361 Calvert Bldg., and others.

Md., Flintstone.—H. Wm. Youker will rebuild sawmill reported burned at loss of \$2000.

Miss., Coral.—Carruth Bros. Lumber Co. incorporated by E. A. Thomas, J. S. and C. F. Carruth; capital stock \$100,000.

Miss., Hattiesburg.—Bentley & Emery, Highton, Miss., purchased extensive timber rights in Perry county.

Miss., Hattiesburg.—Gulf Arm & Creosoting Co., R. R. Akers, president and manager, has purchased machinery for sawmill; daily capacity, 220,000 feet yellow-pine timber; erect addition 60x60 feet; iron covered. (Recently noted.)

Miss., Laurel.—Wausau Southern Lumber Co. will, it is reported, build duplicate plant to increase daily capacity to 600,000 feet lumber; buildings to be of fireproof construction; company wires Manufacturers Record: "Do not contemplate building additional mill this year."

Mo., Hough.—Buckeye Lumber & Heading Co. has elected R. J. Burhen, president and treasurer; P. A. Desgrages, vice-president; W. S. Gardner, secretary; will manufacture lumber and heading; has plant and machinery. (Recently noted organized.)

N. C., Stanstonsburg.—Stanstonsburg Lumber Co. (Houston-White Company, Millsboro, Del.) will rebuild plant recently burned; sawmill, box factory, drykilns, etc., were included.

S. C., Nichols.—Nichols Lumber Co. incorporated with \$15,000 capital stock by L. L. Gotlieb, W. C. White, Nathan Barnett and P. A. Marion.

Tenn., Monterey.—J. Gibson McIlvain Lumber Co., Philadelphia, Pa., and Nashville, Tenn., purchased 500 acres timber land stumpage at about \$25,000.

Tenn., Nashville.—Deermont Lumber Co., capital \$5000, incorporated by A. N. Bonham, Archie Hayes, J. H. Hatfield, J. T. Browder and W. C. Henderson.

Tex., Austwell.—Austwell Lumber Co., capital stock \$15,000, incorporated by P. R. Austin, D. S. Emison, J. T. Linebaugh and W. H. Dawson.

Tex., Voth.—Keith Lumber Co. will rebuild engine and boiler-house reported burned and install new engines.

Va., Wytheville.—Climchfield Tie & Lumber Co., M. L. Harrison, president, will manufacture oak car lumber and railroad cross and switch ties; main office, Johnson City, Tenn. (Recently noted incorporated with \$50,000 capital stock.)

W. Va., Gill (not a postoffice).—B. Johnson & Son, Richmond, Ind., is having plans prepared to rebuild sawmill; probably band equipment; now installing several small mills for temporary use. (Lately reported burned.)

METAL-WORKING PLANTS

Ala., Decatur.—Roofing, etc.—Decatur Cor-nee & Roofing Co. will build 40x80-foot \$5000 addition to foundry department.

Ga., Macon.—Tin.—L. C. Ricks will erect two one-story buildings costing \$7500 and equip for tin working; architect, Leon Dure of Macon.

N. C., Newbern.—Tin, etc.—S. B. Parker Company, authorized capital \$25,000, incorporated by S. B. Parker, D. M. Parker and G. W. Allee.

Tenn., Chattanooga.—Remetaling.—Ashworth Crosshead Remetaling Co., authorized capital \$25,000, incorporated by R. M. McNabb, Albert Ashworth, J. F. Ashworth, A. R. McNabb and T. E. McLean.

MINING

Ala., Anniston.—Marble.—J. B. McAlrath, Birmingham, Ala., is reported as interested in plan to develop black-marble deposits.

Ala., Gadsden.—Marble.—J. A. Bilbro plans development of black marble property; now securing land options and considering organization of quarrying company.

Ala., Quenelda.—Graphite.—Quenelda Graphite Co., J. Warren May, general manager, will rebuild plant recently reported burned; daily capacity 2000 tons; has 22,000 acres of graphite property. (See "Machinery Wanted.")

Ky., Lexington.—Phosphate.—Dr. H. C.

Stiefel, Pittsburgh, Pa., is reported as to build phosphate plant.

Ky., Midway.—Phosphate.—Kentucky Phosphate Co. will build plant for mining phosphate; now has plant of 30 tons daily capacity.

Md., Havre de Grace.—Flint, Spar, etc.—North-East Mining & Milling Co. incorporated, \$50,000 capital stock, by William H. Orem, Matthew C. Fenton, Leroy Oldham, all of Baltimore, Md., and Hilton J. Doggett, Havre de Grace. (Mr. Doggett, engineer in charge, recently noted as advising Manufacturers Record of organization of company to develop water-power and mine and mill flint, spar, clay, etc.)

Mo., Joplin.—Lead and Zinc.—Oronogo Circle Mining Co. will install equipment for electrical drive; 900 horse-power required; awarded contract for 17 electric motors, three 800-foot compressors, four hoists, three tram hoists, etc., costing \$30,000.

N. C., Charlotte.—Gold.—Surface Hill Mining & Milling Co., capital stock \$500,000, organized by E. M. Tucker, R. Budge and others; will develop Surface Hill gold property, 11 miles from Charlotte; now sinking 8x7-foot shaft cribbed with 4x5-inch timbers.

N. C., Taylorsville.—Graphite.—Maltfeldt Graphite Mining Co., Otto M. Maltfeldt, manager, is planning to develop graphite property.

Okla., Ardmore.—Iron.—Ferro-Mastic Mining Co., capital stock \$25,000, incorporated by H. M. Morrison and E. T. Riser of Woodward, Okla.; A. B. Marshall of Cleveland, O.; D. E. Mitchell of Lebanon, Tenn., and others.

Okla., Sand Springs.—Sand.—Sand Springs Lumber Co. will install sand-pumping plant; electric motor. (See "Machinery Wanted.")

S. C., Gaffney.—Tin.—D. D. Nicholas will develop tin deposits.

Tex., Kingman.—Gold.—Gold Road Mines Co. will double mill capacity and make other improvements; new machinery to include filter presses, cyaniding equipment, etc.

Tenn., Knoxville.—Iron.—Knoxville Bureau of Industrial Development recommended expenditure of \$5000 to determine value of Tuckahoe iron property by sinking shafts, driving tunnels, analyzing ores, etc., under direction of Walter Kennedy of Pittsburg, Pa.

Tex., Ore City.—Iron.—East Texas Brown Ore Mining & Development Co., Galveston, Tex., will issue \$200,000 bonds for developments; has ordered machinery for mining. (Organization, property and plans heretofore detailed.)

Va., Pembroke.—Rock.—W. W. Boxley & Co., Roanoke, Va., (lately awarded contract by Norfolk & Western Railway to furnish ballast for roadbed), will establish plant near Pembroke; daily capacity 2000 to 2500 cubic yards ballast; use one steam shovel at present, probably two shovels later; will need equipment. (See "Machinery Wanted.")

MISCELLANEOUS CONSTRUCTION

Ala., Tuscaloosa.—Coal Bin, Tipton, etc.—Alabama-New Orleans Transportation Co., New Orleans, La., will construct coal bins, tipple and accompanying facilities for barging coal; reported as to expend \$100,000.

Fla., Clearwater.—City votes September on \$45,000 bonds, of which \$5000 is to construct concrete pier; John Phillipoff preparing estimates. Address The Mayor. (See "Road and Street Work.")

Fla., Jacksonville.—Municipal Docks, etc.—Governor has called special session of Legislature to consider proposed bill enabling city to issue \$1,500,000 bonds for buying and equipping municipal docks, etc. Address The Mayor.

Fla., Pensacola.—Docks.—Gulf, Florida & Alabama Railway, G. A. Berry, chief engineer and general manager, Pensacola, secured municipal grant of about 180 acres, 1500 feet water-front, for construction of proposed docks or piers; latter to be five in number, each 100 feet wide and 1225 feet long; two will be open piers for lumber; two will have sheds; one will be for coal handling; 30-foot depth of water between piers.

Fla., St. Petersburg.—Docks.—City will build docks, warehouses, etc., on water-front. Address The Mayor.

Ga., Atlanta.—Fire Alarm System.—City will contract for automatic, semi-automatic and manual fire alarm telegraph central office equipment, including cables and serial line work; receives bids until October 2; plans and specifications on file with Chief of Fire Department. (See "Machinery Wanted.")

La., Alexandria.—Board of Commissioners, Red River, Atchafalaya and Bayou Boeuf Levee District, E. G. Richard, president, will construct following levee work in St. Landry Parish on west bank of Atchafalaya River: Elba to Melville Levee, raising and enlarging and new levee; Section No. 1, station 3578 to station 3700 plus 50, 100,000 cubic yards; Section 2, station 3700 plus 50 to station 3738 plus 87, 75,000 cubic yards; Section 3, station 3738 plus 87 to station 3801 plus 30, 85,000 cubic yards; Section 4, station 3801 plus 30 to station 3865, 80,000 cubic yards; bids received until September 4 at office of Board at Alexandria. (See "Machinery Wanted.")

La., New Orleans.—Levees.—Atchafalaya Basin Levee Board awarded contract for White Hall levee in Point Coupee parish on Atchafalaya River, contents 55,000 cubic yards, to Merrick & Glynn, at 23.35 cents per cubic yard; Milan levee on Atchafalaya River, in Point Coupee parish, contents 60,000 cubic yards, to W. E. Geren, at 22.35 cents per cubic yard; Steve Barbre's levee on Atchafalaya River, in Point Coupee parish, contents 70,000 cubic yards, to F. L. Cason, at 24.35 cents per cubic yard; Major Barbre's levee contract to W. F. Rushing at 23.40 cents.

La., New Orleans.—Levees.—Government awarded contract to C. Henritzy, Nestor, La., at 21.15 cents, for levee work requiring 1700 cubic yards earth filling; to John W. Noble, Fayette, Miss., at 29½ cents, for levee work requiring 27,000 cubic yards earth filling; these improvements at two large crevasses caused by recent flood.

La., New Orleans.—Levee.—Government awarded contract to Landeche & Lambert Bros., St. Rose, La., for rebuilding levee at Hymella crevasse; \$4.99 per cubic yard; 95,000 cubic yards.

La., New Orleans.—Pontchartrain Levee District, Hunter C. Leake, president, will construct following levee work on Mississippi River, left bank: Baton Rouge Protection levee to Arbrington, East Baton Rouge parish, contents 11,000 cubic yards; Bonnet Carre, St. John parish, contents 200,000 cubic yards; Decklar levee, north, Jefferson parish, contents 100,000 cubic yards; bids received at office of Board of State Engineers, 213 New Orleans Court Bldg., New Orleans, until August 31. (See "Machinery Wanted.")

Md., Baltimore.—Heating System.—Board of Awards let contract at \$51,236 to W. G. Cornell & Co., Fourth Ave. and 17th St., New York, to install heating system in courthouse and city hall.

Md., Baltimore.—Concrete Wall.—Department of Public Improvements, O. F. Lackey, Harbor Engineer, City Hall, receives bids until September 11 to grade and construct concrete retaining wall on south side of proposed commercial highway between Battery Ave. and Covington St.; specifications and plans obtainable at Harbor Board's office. (See "Machinery Wanted.")

N. C., Charlotte.—Underpass.—Executive Board of city awarded contracts for construction of East Ave. underpass; to Vaughan Construction Co., Roanoke, Va., at \$487.50, for excavating 7150 cubic yards earth, and at \$7500 for 475 cubic yards concrete work; to Propst Contracting Co., Charlotte, at \$3410, for sewer and drainage work; city's portion, \$13,962.50; by Southern and Seaboard railways to Vaughan Construction Co., at \$4513.50, for concrete work, and \$864 for additional concrete construction; also to Vaughan, at \$1134.90, for removing earth from beneath railroad tracks; Charlotte Electric Railway will probably award contract to Vaughan, at \$1365, for excavation work; other work and construction of steel bridge for railway tracks will increase total cost to about \$50,000. (Previously mentioned.)

Tenn., McEwen.—Concrete Dam.—E. E. O'Poole, Nashville, Tenn., will construct concrete dam to form lake for fish.

Tenn., Memphis.—Levee.—New South Memphis Land Co. is conferring with County Commission, F. G. Mote, engineer, relative to construction of levee to protect industries of new South Memphis; estimated cost \$25,000.

MISCELLANEOUS ENTERPRISES

Ala., Birmingham.—Machinery.—General Machinery Co., capital stock \$5000, incorporated with B. A. Schroder, president; W. C. Watson, secretary-treasurer; Eugene Fies, vice-president; C. E. Ard, chief engineer.

Ala., Birmingham.—Construction.—Furtwangler Construction Co. incorporated with \$5000 capital stock; Archibald S. Furtwangler, president; Charles A. Donegan, vice-presi-

dent; G. M. Bowers, treasurer; Henry Fitts, secretary.

Ala., Decatur—Steam Laundry.—Ben Martin will install steam laundry; has leased building being erected by Sam Irwin.

Ark., Russellville—Publishing.—Pope County Record will make repairs to plant recently reported damaged by fire.

Ala., Mobile—Painting.—B. Luscher & Son Paint Co., capital stock \$10,000, incorporated by Bernard R. Luscher, Carter Luscher and others; continues painting and decorating enterprise established by late Bernard Luscher.

Fla., Mulberry—Publishing.—Mulberry Publishing Co. incorporated with \$3500 capital stock; A. S. McKillop, president; W. P. Read, vice-president; A. D. West, secretary.

Fla., Tampa—Amusement Park.—Grant Park Amusement Co., capital stock \$5000, incorporated with R. M. Marshall, president; W. B. Dickenson, vice-president; S. Jacobs, secretary-treasurer; R. M. Marshall, manager.

Ga., Macon—Construction.—Parker-Brooks Construction Co., capital stock \$50,000, incorporated by J. M. Brooks, T. C. Parker and others.

Ga., Moultrie—Steam Laundry.—S. P. Turnbull of Moultrie and Tom Andrews, Jr., of Columbus, Ga., are reported as to establish steam laundry.

Ga., Savannah—Machinery.—E. F. Hartfelder Company, capital stock \$100,000, incorporated by E. F. Hartfelder, J. H. McKenna and others; to deal in machinery and supplies; temporary address, Savannah Bank & Trust Bldg.

Ga., Savannah—Engineering.—Atlantic Engineering Co., capital stock \$10,000, by J. F. R. Kuck, Paul E. Seabrook and others.

Ky., Louisville—Amusement Park.—Fontaine Ferry, Harry Bilger, manager, will expend \$50,000 for improvements.

La., New Orleans—Transportation.—Southern Transportation Co., authorized capital \$500,000, incorporated by C. A. Barbour and associates; Mr. Barbour, president; L. A. Jung, vice-president; C. K. Burns, secretary; Travis Holland, treasurer; offices in Whitney-Central Bank Bldg.

Md., Baltimore—Contractors.—Slack & Slack Company, capital stock \$10,000, incorporated by George V. Slack of 1030 Home-wood Ave., Howard E. Rome and Read A. McCaffray to contract for hauling, excavating and contracting; location, north side of Baltimore Belt Railroad, between 26th and 27th Sts.; Mr. Slack, president.

Md., Baltimore—Bottling.—Gottlieb-Baerenschmidt-Straus Brewing Co., Central Ave. and Fawn St., decided to build proposed central plant for bottling product of its various breweries; will concentrate all bottling; location, adjacent to Globe Brewery.

Miss., Jackson—Printing Plant.—F. R. Bird-sall, editor of Yazoo Sentinel, Yazoo, Miss., is promoting organization of company to establish printing plant.

Mo., St. Louis—Excavating, etc.—Edward Excavating & Wrecking Co., capital \$2500, incorporated by Edward M. Keary, Bertha Keary and William Elchenseer.

N. C., Cherryville.—Dr. W. H. Houser and M. L. Rudisill will erect business building, one room to be occupied by Eagle Publishing Co. (See "Stores.")

N. C., Greensboro—Publishing.—Insurance Publishing Co., authorized capital \$50,000, incorporated by Joseph J. Stone, S. T. Wyrick, Isham King, T. N. Winston and Vander Liles.

N. C., Raleigh—Marble Works.—Cooper Monument Co., capital stock \$75,000, incorporated by W. A. Geo. W. and Ellie S. Cooper; acquires Capital Granite Works, plants owned individually by Messrs. Cooper, quarry, etc.; will install additional new machinery.

Okla., Oklahoma City—Grain Elevator.—Kammerdeener Elevator Co. will rebuild grain elevator reported burned at loss of \$14,000.

Tenn., Memphis—Grain Elevator.—Edgar-Morgan Grain Co. will erect \$25,000 grain elevator on Louisville and Nashville tracks; capacity 50,000 bushels.

Tenn., Memphis—Grain Elevator.—United States Feed & Grain Co., capital stock \$25,000, incorporated to build grain elevator driven by electric power; president, S. E. Rison; secretary-treasurer, C. O. Ramer; superintendent, G. S. Knapp.

Tenn., Nashville—Publishing.—Bob Taylor Publishing Co., capital stock \$50,000, incorporated to publish the writings and lectures of late Senator Taylor, by Hugh L. Taylor of

Fort Worth, Tex.; J. H. Hardwick of Cleveland, Tenn.; N. G. Robertson of Lebanon, Tenn.; De Long Rice and A. W. Willis of Nashville.

Tenn., Paris—Bottling.—Paris Mineral Wells Co. will build bottling plant.

Tex., Dallas—Construction.—Trussed Concrete Steel Co., capital stock \$10,000, incorporated by J. H. Smith, J. M. Johnson and Julius Kahn.

Tex., Dallas—Crematory.—City received bid at \$4750 from R. S. Winn Company, Dallas, to build auxiliary crematory; construction to include building furnace of hard-burned brick, concrete, gray-iron and fire-brick; covering furnaces with galvanized-iron building 30x40 feet, with 18-foot brick smokestack, etc. (Call for bids lately noted.)

Tex., Floydada—Publishing.—Hesperian Publishing Co., capital stock \$3750, incorporated by C. Suringer, Tom P. Steen, W. A. Robbins and Claude V. Hall.

Tex., San Antonio—Contracting.—Interstate Building Co. incorporated with capital stock of \$10,000 for general contracting; J. E. Boren, president; E. J. Jackson, vice-president; W. H. Brodie, secretary-treasurer.

Tex., Tyler—Publishing.—Byrne Publishing Co., capital stock \$20,000, incorporated by H. E. Byrne, Mrs. F. A. Glenn and Mary Glenn.

Va., Alexandria—Bottling.—Robert Portner Brewing Co. will erect building for bottling plant; reinforced concrete, brick and iron; 95x165 feet; one story and basement; cost \$46,000.

Va., Brookneal—Publishing.—Union Star Publishing Co., capital stock \$5000, incorporated; W. L. Williams, president; E. R. Monroe, vice-president; Thomas H. Steele, secretary-treasurer and general manager.

Va., Lexington—Machinery, etc.—L. Black & Co. incorporated with L. M. Lyons, vice-president, Roanoke, Va.; Sol Lyons, vice-president, Lexington; L. Black, secretary-treasurer, Philadelphia, Pa.; capital stock \$10,000; deal in sewing and cutting machinery, etc.

W. Va., Barboursville—Printing Plant.—Barboursville Budget will erect building and install printing equipment to replace present plant.

W. Va., Elm Grove—Cleaning.—Rice Bros. will erect building for their cleaning works, now established.

MISCELLANEOUS PLANTS

Ala., Mobile—Acetylene Lighting.—Mobile Acetylene Light & Carbide Co., capital \$2000, incorporated to build acetylene lighting plant; Geo. E. Crawford, president; E. M. Kaufman, vice-president; R. C. Herndon, secretary-treasurer.

Ala., Montgomery—Tobacco.—Montgomery Tobacco Co., capital \$2000, incorporated; L. A. Sanderson, president; Ed. S. Watts, vice-president; J. C. Hardaway, secretary-general manager; R. G. Arrington, treasurer.

Ark., Jonesboro—Gas.—W. T. Lane and E. E. Randolph of Jonesboro and W. W. Cato of Chicago, Ill., applied for municipal gas franchise.

Ark., Little Rock—Ice Cream, etc.—Peckham Company, capitalized at \$25,000, incorporated by R. H. O. B. and C. L. Peckham, F. C. Rosenberger and O. F. Deubler.

Fla., Chipley—Tires.—Punctureless Tire Co. incorporated with capital stock \$12,500; L. W. Crow, president-secretary; J. S. McGeechey, vice-president; C. B. Dunn, treasurer.

Fla., Green Cove Springs—Wood Pulp, etc. National Pulp & Turpentine Co. incorporated with capital stock \$200,000; E. J. Fithian, president-treasurer; W. M. Bashlin, vice-president; E. W. Humphrey, secretary.

Ga., Montezuma—Calendars, etc.—W. T. Christopher will install machinery to manufacture calendars, manifold sales books, etc. and conduct commercial printing; machinery mainly purchased.

Ga., Savannah—Cellulose, etc.—National Cellulose Co., Burdette Loomis of Hartford, Conn., president, purchased land as site for plant, including 10-mile water front, near Savannah; will build cellulose plant, establish town called Loomis, grow winter flax and Kaffir corn, manufacture flaxseed oil, secure location of manufacturing plants using cellulose, etc.; directors meet in October to determine plans; expect to begin construction by January. (Recently incorporated with \$100,000 capital stock, etc.)

Ky., Lawrenceburg—Distillery.—Old Joe Distilling Co., capital \$5000, incorporated by W. P. Frazier, N. E. Gee, J. H. Hawkins and R. B. Hawkins.

Ky., Louisville—Clothing.—Nuxall Suit & Skirt Co., authorized capital stock \$20,000, incorporated by John W. Nuxall, W. H. Von Borries, Samuel O. Wilkes, W. S. Bomer, J. H. Wilkes and L. P. Doerhoefer.

Ky., Louisville—Beverages.—Coco-Cola Bottling Works will remodel plant building and erect brick stable; cost \$4000.

Ky., Maysville—Syrup.—Maysville Syrup Co., capital \$50,000, incorporated by F. T. Patterson, J. B. Smiley and C. S. Kirk.

La., New Orleans—Foods.—Armour & Co., capital stock \$50,000, incorporated by Wm. B. Lathrop (manager of Armour Packing Co.) and associates to manufacture food products.

La., Shreveport—Jack Attachments.—Quinn & Atkins Journal Jack Attachment Co., capital stock \$150,000, incorporated with J. W. Atkins, president; W. E. Quinn, vice-president; Tom Green, treasurer.

Md., Baltimore—Clothing.—American Clothing Co., capital stock \$20,000, incorporated by Wolfe Levine, 1202 McEldey St., and others.

Md., Baltimore—Brewery.—Gottlieb-Baerenschmidt-Straus Brewing Co., Central Ave. and Fawn St., completed arrangements for proposed doubling of capacity of Globe Brewery; awarded contract for all additional equipment and engineering required; expenditure about \$70,000; no additional buildings needed. (See "Miscellaneous Enterprises.")

Md., Baltimore—Bottle Seals.—Consumers' Crown & Seal Co., capital stock \$50,000, incorporated by Albert J. Redpar, secretary-treasurer of Spar Products Co., Columbia Ave. and Putnam St., Baltimore; Wesley W. Mason and Harry K. Brooks.

Md., Baltimore—Tailoring.—J. A. Dietsch, 1409 W. Baltimore St., will erect building for tailoring establishment at Baltimore St. and Arlington Ave.

Miss., Biloxi—Turpentine Cups, etc.—Petroleum Company incorporated by D. G. Zeigler, I. D. Bird, W. K. M. Dukate and others; to manufacture turpentine cups, telegraph and telephone poles, etc.; capital stock \$30,000.

Miss., Natchez.—Medicine.—Cap-a-Cold Co., capital stock \$10,000, incorporated by R. Lee Byrnes, Charles R. Byrnes, James K. Lambert and others; has established plant with daily capacity 50,000 capsules.

Mo., Kansas City—Paper.—Mississippi Valley Paper Co. incorporated by George I. Tompkins, Asa Q. Reynolds, C. A. Singer and others; capital stock \$50,000.

Mo., St. Louis—Motographs.—Motograph Company of America incorporated by George W. Heinrich, Frank X. Hiemenz and Albert Kochs, to manufacture moving-picture machines and appliances.

Mo., St. Louis—Brake Shoes.—General Appliance Co., capital \$50,000, incorporated; Wellman I. Mills, president and treasurer; George F. Haugens, vice-president; Hugh K. Wagner, secretary; product, railway brake shoes and other appliances.

Mo., St. Louis—Paint.—Thomas Anti-Rust Paint Co. incorporated by H. L. McNail, V. H. Thomas and W. A. Thomas; capital stock \$25,000.

Mo., St. Louis—Shoe Heels.—International Shoe Co., Robert L. Lund, manager sole leather department, awarded contract to James Black Masonry & Contracting Co., St. Louis, to erect plant; five stories; 50x200 feet; ordinary construction; plans by T. C. Link & Son, Carleton Bldg., St. Louis. (Recently noted as Robert Johnson & Rand Shoe Co.)

N. C., Charlotte—Car Steps.—Blake Car Step Works has plans for plant; awarded contract for 130x30-foot building of white pressed brick, costing \$8000; contemplates erecting 150x50-foot addition later; will install brass foundry, etc. (Recently reported incorporated with \$250,000 capital stock, etc.)

N. C., Lexington—Trousers and Overalls.—Siceloff Manufacturing Co., D. S. Siceloff, manager, operates overall and trouser factory; has building and equipment; daily capacity 400 pairs of overalls and trousers. (Recently noted.)

N. C., Wilmington—Bottling.—Wilmington Pepsi-Cola Bottling Co. organized with J. W. Brooke president, E. L. Mathews vice-president, J. C. Wagner, Jr., treasurer and general manager; purchased plant at 14 Market St. (Recently reported incorporated with \$10,000 capital stock.)

N. C., Winston-Salem—Tobacco.—Taylor Bros. plan construction of tobacco factory at 3d and Depot Sts.

N. C., Winston-Salem—Tobacco.—Ogburn-Hill Company will rebuild tobacco factory reported burned at loss of \$75,000.

N. C., Winston-Salem—Tobacco.—Brown & Williamson Tobacco Co., George T. Brown, president, advises Manufacturers Record that new factory will be erected on adjoining 80x200-foot lot; fireproof; three-story structure, equipped with automatic sprinklers; plant's capacity to be doubled with completion of this factory; further connected plan include removal of one house to another location, remodeling of second residence into offices, removal of walls between present office and factory, and enlargement of rolling-room.

Okla., Okmulgee—Glass.—Fredonia Glass Co., Coffeyville, Kan., is reported as to build 54-blower glass works.

S. C., Central—Track Appliances.—Scott Safety Track Appliance Co., W. M. Scott, president (recently noted incorporated, capital stock \$10,000), contemplates manufacture of angle bars, crossties and frogs; will place order for present manufacture; later may establish and equip plant.

S. C., Greenville—Underwear.—Nuckasee Manufacturing Co. plans to increase capital stock from \$50,000 to \$100,000.

Tenn., Gainesboro.—Gainesboro Tobacco Co., capital \$10,000, incorporated by J. W. Carter, B. L. Quarles, L. C. Quarles, W. H. Draper and G. B. Settle; H. L. McDearman, president.

Tenn., Nashville—Signs.—Scenic Sign Co., 319 1/2 Third Ave., will build factory.

Tenn., Nashville—Chewing Gum.—National Chewing Gum Co. increased capital stock from \$50,000 to \$100,000.

Tex., De Leon—Peanuts.—De Leon Peanut Co. will, it is reported, build \$50,000 plant.

Tex., El Paso—Petroleum Refining.—El Paso Refining Co. will rebuild petroleum refinery reported burned at loss of \$50,000.

Tex., Houston—Glass.—Texas Glass & Paint Co. of Dallas, Tex., purchased Texas Art & Plate Glass Co. for \$31,450.67, etc.; will make extensive improvements.

Tex., Orange—Paper.—Yellow Pine Paper Mill Co., W. H. Stark, president, will expend \$5000 to erect addition to plant; 70x100 feet; steel and concrete; cost of machinery, including incinerator and evaporator equipment, \$10,000. (Recently noted.)

Tex., Tyler—Overalls.—Tom Swan will erect overall factory and warehouse building. (See "Warehouses.")

Va., Richmond—Distillery.—Stony Creek Distilling Co. will increase capacity from 141 to 200 bushels.

Va., Richmond—Distillery.—Chesterfield Distilling Co. will make general repairs and install new pumps.

Va., Richmond—Distillery.—Darbytown Distilling Co. will increase to 300 bushels capacity and install new boilers.

Va., Richmond—Distillery.—Old Dominion Distilling Co. will make repairs and increase to 400 bushels capacity.

Va., Roanoke—Nodulized Pyrites.—The Pyrites Co., Ltd., of London, England, G. W. Gray manager at Roanoke, has completed office building and begun construction of plant buildings; will install large leaching tanks, other tanks for precipitating copper from solution, sintering equipment, etc., and build warehouses; will collect pyrites from Southern fertilizer factories and nodulize it for use at blast furnaces; daily output to be 200 tons nodulized pyrites. (Lately reported to build this plant.)

Va., Staunton—Specialties.—Hiner Specialty & Manufacturing Co., capital stock \$25,000, incorporated; C. N. Hiner, president; F. O. Hiner, vice-president; C. H. Powers, secretary-treasurer.

Va., Roanoke—Washing Powder.—Company formed with \$25,000 capital stock to manufacture washing powder; H. C. Elliott, president; Charles D. Fox, vice-president; H. W. Fry, secretary; E. R. Chick, treasurer.

Va., St. Petersburg—Fireworks.—National Fireworks Manufacturing Co. will expend \$500 for building and machinery additions; erect stockhouse and sparker-manufacturing house, and change from steam to electric power.

W. Va., Huntington—Shoes.—Newberry Shoe Co. will double capacity of factory.

MOTORS AND GARAGES

Ala., Birmingham—Automobiles.—Robertson Tire & Auto Co. incorporated with \$2000 capital stock; J. E. Vandergriff, president; E. R. Minihette, Jr., secretary; W. W. Robertson, treasurer.

D. C., Washington—Garage.—Sealed proposals, endorsed "Proposals for Garage," re-

ceived at Bureau of Yards and Docks, Navy Department, until 11 A. M. September 14, and then publicly opened, for fireproof garage at navy-yard; amount available \$4000; specification No. 1888; plans and specifications obtained on application to bureau or to commandant of navy-yard; William M. Smith, acting chief of bureau.

D. C., Washington.—W. S. McAllister awarded contract to erect garage and dwelling. (See "Dwellings.")

Ga., Atlanta.—Motor-cycles.—Hendee Manufacturing Co., Springfield, Mass., will lease half of building to be erected at 455 Peach-tree St. by Dr. J. W. Roberts; will be 50x130-foot two-story structure; cost not determined.

Ga., Savannah.—Garage.—Harris Tire Co., Stephen N. Harris, manager, purchased site for erection of garage; has tentative plans for \$25,000 structure; structural steel and concrete; machine shop on second floor.

Ky., Newport.—Automobiles.—Central Automobile Co., 209 York St., awarded contract to Dan Walsh to erect garage and repair shop; 27x33 feet; frame; corrugated-iron clad; machinery purchased; Walter P. Dickerson, president; Gus Koehler, vice-president; Clyde S. Emrick, treasurer. (Recently noted incorporated with \$15,000 capital stock.)

Mo., Kansas City.—Automobiles.—Packard Kansas City Motor Co., capital \$2000, incorporated by Joseph B. Ranshaw, Robert Sloan and R. J. Ingraham.

Mo., St. Joseph.—Automobiles.—Ardery Holliday Motor Car Co., capital \$10,000, incorporated by J. W. Ardery, J. W. Holliday, Jr., W. S. Thomson, Charles Ardery and W. H. Watson.

N. C., Shelby.—Automobiles.—W. J. Arey will build garage; 50x80 feet; brick construction; cement floor; plate-glass front; equip with gas tanks, compressed-air apparatus, etc.

S. C., Dillon.—Automobiles.—Roach & Carmichael Company, capital \$3850, incorporated with C. A. Roach, president; H. H. Carmichael, secretary-treasurer.

Tenn., Memphis.—Automobiles.—James Alexander Construction Co., Memphis Trust Bldg., Memphis, is lowest bidder at \$141,457 to construct assembling and distributing plant for Ford Motor Car Co., Detroit, Mich.; six stories. (Recently noted.)

Tenn., Nashville.—Automobiles.—Cumberland Motor Co., capital stock \$10,000, by W. D. Caldwell, J. H. Cheek, J. O. Cheek, Jr., and D. M. Bayer.

Tex., San Antonio.—Automobiles.—Guarantee Motor Car Co., capital stock \$10,000, incorporated by J. F. Hagan, H. J. Smith and C. W. Voss.

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

La., New Orleans.—New Orleans Terminal Co., A. D. Lightner, president, awarded contract to W. M. Wren, New Orleans, for construction in connection with plan to complete Chalmette slips; Wren contract reported as about \$250,000; other work to include warehouse, grain elevator of 500,000 bushels capacity, roundhouse, etc., as announced recently when \$1,000,000 was appropriated to complete Chalmette improvements for Frisco and Southern railways. Mr. Lightner writes to Manufacturers Record: "Wren contract applies to driving of grillage and erection thereon of concrete piers carrying improved concrete floors of one-story steel shed 150x1300 feet and two-story steel shed 150x1800 feet."

Mo., Marcelline.—Atchison, Topeka & Santa Fe Railway, C. F. W. Felt, chief engineer, Topeka, Kans., will build roundhouse in addition to station and office building under construction; has awarded contract.

Tex., Big Spring.—Rock Island, Farwell & Gulf Railway will, it is reported, build main shops and maintain freight and passenger divisions.

Tex., Victoria.—St. Louis & San Francisco Railway, F. G. Jonah, chief engineer of construction, St. Louis, Mo., awarded contract to Anchor Lumber Co., Victoria, to build roundhouse, construct water service plant, etc.

Va., Norfolk.—Norfolk & Western Railroad Co., C. S. Churchill, chief engineer, Roanoke, Va., is understood to be preparing to begin construction of proposed car-repair shops, roundhouse, machine shop, offices and storehouse at foot of Pennsylvania Ave., to cost \$150,000; reports state John P. Pettyjohn & Co., 212 2nd St., Lynchburg, Va., will receive building contract.

ROAD AND STREET WORK

Ala., Birmingham.—City will contract for certain grading, macadamizing, curb and gutter and sidewalk paving; also for certain storm sewers; bids opened August 27; specifications obtainable and plans examined at office of City Engineer, Walter G. Kirkpatrick. (See "Machinery Wanted.")

Ala., Clanton.—County Commissioners receive bids until September 23 to grade, drain and resurface with gravel about six miles of State-aid road; W. S. Keller, Highway Engineer, Montgomery, Ala. (See "Machinery Wanted.")

Ala., Decatur.—Morgan County Commissioners receive bids until September 24 for clearing, grubbing, grading and draining State-aid road from Decatur to Hartselle; expenditure \$8000 at same time for grading, draining and surfacing with macadam or gravel two miles of Decatur and Danville road; W. S. Keller, State Highway Engineer, Montgomery, Ala.

Ala., Greenville.—Butler County Commissioners awarded contract at \$17,000 to Andrew E. Perry of Montgomery, Ala., to resurface 12 miles of State road with sand-clay. (Recently mentioned as awarding contract to Perry to build road from Greenville to Forest Home, 16 miles.)

Ala., Greensboro.—Hale County Commissioners will construct gravel road; cost \$8000; R. H. Cobbs, Jr., engineer in charge; date of opening bids not set. (Recently noted.)

Ala., Hartselle.—City will construct 20,000 yards tar-capped macadam, 1000 linear feet concrete gutter and 7000 linear feet combined concrete curbing gutter; bids opened August 22; R. A. Burleson, City Engineer. (Heretofore mentioned as opening bids for sidewalk construction.)

Ala., Lafayette.—Chambers County Commissioners receive bids on September 14 for grading and surfacing with topsoil or sand-clay about 12 miles road, Lafayette to West Point; approximately 40,000 cubic yards excavation and 250 linear feet bridging; T. D. Kemp, Lafayette, engineer in charge; profile and specifications on file with Probate Judge A. J. Driver, Jr. (See "Machinery Wanted.")

Ala., Mobile.—Mobile County and Road Commissioners decided on Dolarway paving for Dauphin St. from city limits to Fulton Rd.; awarded contract to Rockwell & Muths of Mobile; specifications by County Engineer C. L. Strange.

Ala., Rockford.—Coosa County Commissioners receive bids until September 16 to grade and surface with topsoil about six miles of road; expenditure \$8000; profile and specifications on file with Probate Judge; W. S. Keller, State Highway Engineer, Montgomery, Ala.; recently noted receiving bids until August 12. (See "Machinery Wanted.")

Ark., Black Rock.—Black Rock to Smithville Good Roads Association has \$4000 available for constructing 12 miles of stone road; bids opened August 24; L. Walton Roe, secretary. (Recently noted.)

Ark., Pine Bluff.—Pine Bluff Co. (railway) will pave between tracks; awarded contract to Monroe Wright, Kansas City, Mo., for 200,000 Buffalo blocks.

D. C., Washington.—Congress considering appropriation of \$120,000 for construction of road from Washington to Mt. Vernon, Va.

Fla., Clearwater.—City votes September 10 on \$45,000 bonds—\$40,000 for paving and \$5000 for concrete pier. Address The Mayor. (See "Miscellaneous Construction.")

Fla., Dade City.—City will vote on \$15,000 bonds, \$12,000 being for street improvements. Address The Mayor.

Fla., De Funiak Springs.—Walton County Commissioners will construct 60 miles sand-clay roads in Township 3 north, including necessary culverts; also 35 miles main line running east and west through entire county and 25 miles lateral roads running north and south; bids received until September 23; Charles H. Gordon, Clerk; recently noted as to receive bids February 17 on this work. (See "Machinery Wanted.")

Fla., Ocala.—City awarded contract to Alabama Paving Co. for paving Fort King Ave. with vitrified brick; 12,000 square yards at \$1.67; is considering ordinance to pave Oklawaha Ave. and will consider another for Exposition St. Address The Mayor.

Fla., St. Petersburg.—County Commissioners will construct road from St. Petersburg to Largo.

Ga., Atlanta.—Mayor appointed John H. Harwell (chairman), Robert R. Otis, James L. Key and others as committee to consider \$3,000,000 bond issue for street improvements;

R. M. Clayton, chief of construction. (City heretofore noted as considering \$2,000,000 bond issue for this purpose.)

Ga., Atlanta.—City accepted bid of T. D. Mendor, Jr., at \$2.74 per square yard for repaving Marietta St. with wood blocks; R. M. Clayton, city's chief of construction.

Ga., Bowden.—City votes September 28 on \$4000 bonds for street improvements; W. T. Beck, Mayor pro tem. (See "Electric Plants and Water-works.")

Ga., Calhoun.—Gordon County Commissioners ordered election September 13 to vote on issuing \$150,000 bonds for road construction.

Ga., Dalton.—City authorized J. T. Carroll, City Clerk, to invite bids for constructing paving on N. Hamilton and Long Sts.

Ga., Macon.—Construction of 30-foot road from Macon to Roberta is contemplated. Address John I. Champion, Road Commissioner, Roberta, Ga.

Ga., Moultrie.—County Commissioners awarded contract to J. E. Newberry of Moultrie at \$10,640 to construct road to county line according to plans and specifications.

Ga., Savannah.—Savannah & Tybee Turnpike Co., capital stock \$500,000, incorporated by D. C. Tallbott, John E. Schwarz, C. M. Stubbs and others; will construct road from Savannah to Tybee. (Lately mentioned.)

Ky., Louisville.—Board of Public Works opens bids September 6 for paving costing about \$52,000 on Shelby, 12th and 21st Sts. and on Davies, Arlington, Ellison and Reutlinger Aves. (See "Machinery Wanted.")

Ky., Mt. Vernon.—Rockcastle County Commissioners called election for October 28 to vote on \$100,000 bonds for constructing turnpikes.

La., Eunice.—Town Council will invite bids for about five miles cement sidewalks. Address Town Clerk. (See "Machinery Wanted.")

La., Leesville.—City, F. C. Watson, Mayor, will construct recently-noted cement sidewalks; about five miles; open bids in 30 days or later; J. B. Stern, engineer in charge; E. C. Bray, chairman Streets and Alleys Commission. (See "Machinery Wanted.")

La., New Orleans.—St. Joseph Realty Co. will construct pavement on Constance St.

La., Roseland.—Town Council appointed committee (W. B. Martin and William E. Painter) to arrange for several blocks of concrete sidewalks.

La., Shreveport.—City will contract for 90,000 square yards repair and refush-coating various streets; bids opened August 27; L. H. Baker, secretary-treasurer.

La., Shreveport.—Caddo Parish Police Jury, J. T. Bullen, Parish Engineer, receives bids until September 12 to construct hard-surface roadway on Hart's Ferry route; five miles; plans on file; recently noted. (See "Machinery Wanted.")

La., Whitecastle.—City ordered paving of Bowie St. with gravel for distance of 7000 feet. Address The Mayor.

Md., Baltimore.—Department of Public Improvements receives proposals until September 4 for repairs for whole city on streets paved with cobblestones by resurfacing with bituminous concrete, during 1912 and 1913; specifications, blank proposal forms, etc., at office sub department of City Engineer; Geo. M. Boteler, acting City Engineer. (See "Machinery Wanted.")

Md., Baltimore.—Paving Commission awarded contracts as follows: No. 34, to Cunningham Paving & Construction Co., \$48,758.60, Exeter St. from Baltimore to Lombard; Exeter St. from Fayette to Low; Exeter St. from Gay to Front; Monument St. from Fallway to Ensor; granite block, No. 35, to Patrick Reddington, 321 St. Paul St., at \$12,086.75, Colvin St. from Gay to Front; Buren St. from Madison to Truxton; Truxton St. from Buren to Warden, and Warden St. from Truxton to Eager; vitrified block, No. 36, to Cunningham Paving & Construction Co., at \$30,084.50, Front St. from Hillen to High; Front St. from Exeter to Forrest, and High St. from Hillen to Front; granite blocks, Cement footway around School No. 70, William St., to John S. O'Dell, 913 Light St., 87½ cents per square foot. (Call for bids lately noted.)

Md., Baltimore.—About 5000 square feet cement sidewalk will be constructed on Belle Ave. west of Garrison Ave., North Forest Park (suburb); bids closed September 3; D. E. Weatherly, chairman, and D. Lowenstein, Jr., secretary of committee in charge. (See "Machinery Wanted.")

Md., Cumberland.—Allegany County Road Directors open bids September 6 for road construction: Virginia-Ave. Rd., 2857 feet; Corriganville Rd., one mile; in Luke, Md., 900 feet; Frostburg Rd., three-quarters of mile; grading and macadamizing about two and one-half miles, according to plans, etc., on file; Clinton Uhl, chairman directors. (See "Machinery Wanted.")

Md., Cumberland.—City will grade and pave South Lee St., between Paca and Green Sts.; plans and specifications on file with City Engineer, J. P. Gaffney; bids opened August 26; Jos. Hirsch, Commissioner of Streets and Public Property. (See "Machinery Wanted.")

Miss., Booneville.—Highway Commissioners, G. L. Holly, secretary, Supervisors District No. 1, Prentiss county, receive bids until 3 P. M. September 14 for proposed improvement of about 25 miles road; novaculite, chert or gravel; Navier A. Kramer, engineer, Magnolia, Miss. (See "Machinery Wanted.")

Miss., Kosciusko.—Attala County Supervisors will issue \$50,000 bonds for road construction in first district.

Miss., Laurel.—City invites bids until September 3 for paving on Magnolia, Oak and Front Sts. and Central and Fifth Aves.; five separate contracts; plans and specifications on view at office of City Clerk; P. C. Cook, Street Commissioner; city lately noted as to pave 12 blocks. (See "Machinery Wanted.")

Miss., Lincoln.—Montgomery county holds election September 2 to vote on issuing \$40,000 bonds for roads. Address County Commissioners.

Miss., Okolona.—Commissioners Third District, Chickasaw county, awarded contract to Cresap Bros. for construction of recently-noted graded and gravel roads; about 10 miles; H. P. Farrar, engineer.

Miss., Pascagoula.—Supervisors District No. 4 of Jackson county will construct 25 miles of road, partly surfaced with shells or otherwise, partly gravel earth; has \$30,000 available; bids opened September 2 for about two miles of shell road; W. W. Grulstead, secretary, Gautier, Miss.; recently noted as having \$15,000 bond issue available; contemplate expending during next 12 months about \$75,000 on road work in various districts. (See "Machinery Wanted.")

Miss., Vicksburg.—City sold \$100,000 bonds for street improvements. Address The Mayor.

Mo., Carrollton.—North and South Highway, J. R. Boshee of Leon, Ia., president, plans to construct road from Iowa State border to North Missouri cross-State highway at Carrollton.

Mo., Cartersville.—City receives bids until September 5 for constructing 9000 linear feet combined concrete curb and gutter, 2350 linear feet concrete sidewalks and 5000 linear feet eight-inch sewers; plans and specifications on file at office of City Clerk; for information address F. B. Newton, City Engineer. (See "Machinery Wanted.")

Mo., Kansas City.—State Line Crusher Co. has contract for two miles of paving; macadam with base courses bound and penetrated with tarvin; surface treated with California asphaltic oil.

Mo., Poplar Bluff.—City awarded contract to Roy Williams, Cairo, Ill., to pave all downtown streets; finish in 90 days; Egyptian brick; bid \$85,645.24. (Call for bids lately noted.)

Mo., Sedalia.—Sedalia Twelve-Mile Road District Commissioners awarded 14 separate contracts for road construction; total, \$147,990; 41 miles of roads.

Mo., Springfield.—City held special council meeting and authorized street paving, guttering and curbing to cost \$100,000. Address The Mayor.

N. C., Asheville.—City will pave College St. between Spruce and Market Sts. and Walnut St. extension with brick. Address The Mayor.

N. C., Charlotte.—City awarded contract to W. S. Stanchil, Charlotte, at \$253.53 for cement work on East Trade and 4th Sts. and South Davidson and Jackson Terraces. (Call for bids lately noted.)

N. C., Denton.—C. M. Lane & Co., High Point, N. C., have contract to build road from Denton to High Rock; amount about \$100,000.

Tenn., Knoxville.—City Commissioners receive proposals until September 5 for paving; District 33, Forest Ave. from 4th to 9th Sts.; District 97, Oklahoma Ave. from Central to Glenwood St.; about 1000 square yards paving, 8000 cubic yards excavation, 9000 linear feet curb, 3000 linear feet storm sewers, etc.; specifications and proposal

sheets obtainable on application to J. E. Thompson, City Engineer. (See "Machinery Wanted.")

Tenn., Memphis.—Shelby County Commissioners will petition Legislature for authority to vote on issuing \$1,000,000 bonds to continue road construction.

Tenn., Springfield.—Robinson county has available \$300,000 for constructing 200,000 cubic yards macadam roads; will include 431,000 cubic yards earth excavation; R. O. Gallaher, engineer in charge; contract recently noted awarded to Freeman & Robins, Springfield and Morristown, Tenn.

Tex., Austin.—City Council adopted specifications by City Engineer for 16 blocks of paving, comprising Lavaca St. from 7th to 19th, 19th from Lavaca to Congress, and University Ave. from 19th to 21st Sts.; considering bitulithic, wood blocks and bituminous concrete; bids opened September 26; George S. Iredell, City Engineer; this work lately mentioned. (See "Machinery, etc., Wanted.")

Tex., El Paso.—City awarded contract to Southwestern Paving Co., El Paso, to pave W. San Antonio St. between El Paso and Davis Sts.

Tex., El Paso.—W. A. Fortner, American National Bank Bldg., will construct 15-mile race course at Franklin Rancho Amusement Park.

Tex., Bay City.—City voted \$11,000 bonds for street improvements; engineer in charge, A. R. Leckie of Bay City; John Sutherland, Mayor; these improvements lately mentioned. (See "Water-works.")

Tex., Dallas.—City awarded contract to Texas Bitulithic Co., Dallas, Tex., at \$4610.70 to pave Reiger Ave. between Collett and Munger. (Call for bids lately noted.)

Tex., Ferris.—Ellis County District No. 9 voted to issue \$100,000 bonds to improve roads. Address County Commissioners.

Tex., Fort Worth.—City Commission awarded contract to Tarrant Construction Co., Fort Worth, to pave Calhoun St. from 9th to E. Front St.; to Roach & Manigan Company, Memphis, Tenn., to pave Bluff St. from Commerce to Pecan St. (Recently noted as inviting paving bids.)

Tex., Orange.—City will, it is reported, vote on issuing \$20,000 bonds for street improvements. Address The Mayor.

Tex., Taylor.—City receives bids until September 2 for paving portions of 1st, 2d, 3d and Main Sts.; 15,000 square yards; separate bids for each and \$650 check on each; vitrified brick, bitulithic, creosoted pine blocks, as outlined in specifications obtainable upon application to supervising engineer, C. E. Leonard, or to Mayor's office; city recently noted as calling for bids on 15 blocks of street paving. (See "Machinery Wanted.")

Tex., Temple.—City awarded contract to J. A. Gregory of Dallas, Tex., at \$2.10 for paving and 35 cents per foot for curbing with concrete on Central Ave. from 2d St. to Missouri, Kansas & Texas Railway depot; amount \$26,380.25. (Recently noted as inviting paving bids.)

Tex., Waxahachie.—City will construct 35,000 square yards of street paving; \$75,000 available; J. W. Martin, engineer in charge; E. B. Prince, Mayor. (Recently noted as inviting bids until August 26.)

Va., Chatham.—Pittsylvania County Commissioners called election for September 3 to vote on \$100,000 bonds for road improvements.

Va., Mattox.—County Clerks' office, Amelia, Va., receives bids until September 6 for building road between Mattox and Ladore; plans and specifications on file with clerk and with State Highway Commissioner, P. St. J. Wilson, Richmond, Va. (See "Machinery Wanted.")

Va., Warrenton.—Cedar Run District of Fauquier county voted against proposed \$60,000 bond issue for macadamizing roads. Address County Commissioners.

W. Va., Wheeling.—Board of Control, City Bldg., awarded contract to D. A. Jacovetty, Wheeling, for excavating and laying concrete foundation for asphalt of Main St.; \$1.07 for excavating and \$3.59 for concreting. (Call for bids lately noted.)

W. Va., Wheeling.—Ohio county has \$125,000 available for constructing brick and macadam roads; A. S. Bell, engineer in charge; George W. Oldham, Clerk; recently noted to open bids August 28 for brick paving; now also calls for bids until August 29 for macadamizing various roads; information at office of Ohio County Commissioners. (See "Machinery Wanted.")

SEWER CONSTRUCTION

Ark., Little Rock.—City will form improvement district to construct sewer system, draining 528 acres; plans bond issue; Lund & Hill, engineers, Little Rock, have prepared estimate of cost, \$130,000; H. Levinson, Superintendent of Public Works.

Fla., De Land.—City engaged D. D. and C. M. Rogers to prepare surveys for sewer system. Address The Mayor. (Recently noted as considering construction of sewage plant.)

Fla., Tampa.—Board of Public Works has plans by Benj. Thompson for drainage of Hyde Park; plans contemplate construction of 2500-foot sewer costing \$6000, 4700-foot sewer costing \$27,000 and 6750-foot sewer costing \$35,000; work not yet authorized.

Ga., Douglas.—City will construct three to five miles of 8 to 12-inch sanitary sewers; bids received September 17; Arthur Pew, engineer, Atlanta, Ga.; sewers recently noted to cost \$10,000. (See "Machinery Wanted.")

Ga., Oakhurst.—City voted \$5000 bonds for sewers; engineer in charge J. B. McCrary Company, Atlanta, Ga. (Recently mentioned.)

Ky., Bowling.—City Council passed ordinance ordering vote in November on \$350,000 bond issue for constructing sewers; W. P. Bullock, Kansas City, Mo., being considered as engineer in charge; Gils E. Townsend, Mayor. (Recently reported as to consider \$300,000 issue.)

Mo., Cartersville.—City invites bids until September 5 for constructing 5000 linear feet eight-inch sewers; plans and specifications with City Clerk; F. B. Mewton, City Engineer, can give information. (See "Road and Street Work" and "Machinery Wanted.")

Mo., Stanberry.—City has plans and specifications by Worley & Black, Reliance Bldg., Kansas City, Mo., for constructing sewer system; estimated cost, \$35,000. (Recently mentioned as planning sewers.)

Mo., St. Louis.—City receives bids until September 19 to construct Rocky Branch joint district sewer; plans, specifications, etc., on file with Board of Public Improvements and Sewer Commissioner. (See "Machinery Wanted.")

N. C., Newbern.—City invites bids on September 13 for constructing 1000 feet 6-inch sewer on Griffith St. and 500 feet of 8-inch sewer on Guion St.; F. T. Patterson, City Clerk. (See "Machinery Wanted.")

N. C., Smithfield.—City awarded contract to B. C. Copeland, Asheville, N. C., for sewer construction; bids recently noted. (See "Water-works.")

Okla., Vinita.—City voted \$20,000 bonds for sewer extensions. Address The Mayor.

S. C., Cheraw.—City will construct sewers and water-works; former to consist of laying about five miles pipe sewers, 8 to 15 inches in diameter, and appurtenances; bids received September 17; William Godfrey, chairman; Gilbert C. White, engineer, Charlotte, N. C. (See "Water-works" and "Machinery Wanted.")

Tenn., Chattanooga.—Chattanooga Estates Co. awarded contract to Noll Construction Co. for constructing sewer system to cost \$30,000.

S. C., Columbia.—City receives bids until September 3 to construct circular concrete storm-water drain, etc., in Maxey Gregg Park; 510 linear feet; 48 inches inside diameter; plans and specifications on file with City Engineer, John McNeal. (See "Machinery Wanted.")

Tenn., Knoxville.—City Commissioners are said to be preparing to invite bids on construction of main sewer, estimated to cost \$100,000. (Recently reported as authorizing sale of \$125,000 bonds for 3d St. sewer.)

Tex., Austin.—City will construct about 2855 feet 26-inch, 2947 feet 33-inch, 5711 feet 24-inch, 950 feet 21-inch, 882 feet 20-inch, 1133 feet 18-inch, 3899 feet 15-inch, 4630 feet 12-inch, 3688 feet 10-inch, 6319 feet 8-inch and 741 feet 6-inch sanitary sewers, with river outfall, etc.; M. C. Welborn, engineer; P. W. Powell, Superintendent of Streets and Public Improvements; \$250,000 recently noted available. (See "Machinery Wanted.")

Tex., Calvert.—City engaged Fountain & Shaw, Dallas, Tex., to prepare plans for sewer system. (Recently mentioned to have voted \$25,000 bond issue for sewers.)

Tex., Fort Worth.—City Commission awarded contract to F. A. Johnston, Fort Worth, at \$3077.55 to construct 21st St. culvert.

Tex., Houston.—Drainage Commissioners awarded contract at \$36,000 to D. B. Ridpath Company, Houston, to drain 50,000 acres land in southeast Harris county; this is district No. 5, and recently voted \$135,000 bonds; con-

tractor will remove 743,227 cubic yards dirt, 598,227 on prairie to be moved by machine and 145,000 moved by team; 140 acres clearing and grubbing included; survey by N. G. Kolb. (Previously mentioned.)

Tex., La Grange.—Sewerage committee awarded contract to Municipal Construction Co., Dallas, Tex., at \$12,402 to construct sewerage system. (City recently noted as having voted \$17,000 bonds for sewer system.)

Tex., Marfa.—City contemplates construction of sewer system; O'Neil Engineering Co., Dallas, Tex., is investigating with view of submitting bid. Address The Mayor.

Tex., Yoakum.—City will have plans prepared by City Engineer E. Leahy to construct sewer system. (Recently mentioned to have voted \$32,000 bond issue for sewer system.)

TELEPHONE SYSTEMS

Ark., Rogers.—Southwestern Telegraph & Telephone Co. will install flashlight system and make other improvements; cost \$30,000.

Mo., Fisk.—Farmer Telephone Co., capital \$2000, incorporated by W. J. Harrington, John F. Jordan, W. A. Baldrige, R. P. Noel and James Warren.

Okla., Davis.—Davis Rural Telephone Co. (recently noted incorporated with \$1000 capital stock by W. M. Baughman and others) will construct 8 or 10-mile line between two towns; Mr. Baughman, engineer in charge. (See "Machinery Wanted.")

Tex., Beaumont.—Southwestern Telegraph & Telephone Co. will expend \$7000 for reconstruction, to include removal of overhead wires and use of underground system installed last year.

Tex., Fort Worth.—Southwestern Telegraph & Telephone Co., Dallas, Tex., receives bids until September 5 for erection of Lamar exchange addition, according to plans and specifications by Sangulnet & Staats, First National Bank Bldg., Fort Worth; separate bids for heating and plumbing.

TEXTILE MILLS

N. C., High Point.—Hosiery Yarns.—High Point Hosiery Mills will build 10,000-spindle mill for hosiery yarns; plans not prepared. (This supersedes recent item under Trinity, N. C., which was erroneous.)

N. C., Roanoke Rapids.—Fancy Cottons.—Rosemary Manufacturing Co. decided upon 22,000 spindles and 500 wide Jacquard looms as equipment of its additional mill lately reported to be erected; now having plans, etc., prepared; all contracts awarded except for building proper. (Recently mentioned.)

N. C., Rockwell.—Cotton Yarn.—Barringer Manufacturing Co. will erect additional building and install new machinery. (Previously reported as to add 3000 spindles.)

Tenn., Rockwood.—Hosiery.—Rockwood Mills has plans and specifications for erection of two-story-and-basement 150x200 and 250-foot addition; architects, Lockwood, Greene & Co., 93 Federal St., Boston, Mass. (Previously mentioned.)

Tex., Cuero.—Cotton Duck.—Gundalup Valley Cotton Mills awarded \$10,000 contract to Charles Fuess to erect one-story 100x100-foot warehouse and 50x60-foot mill addition. (Recently reported.)

Va., Bedford City.—Flannels, etc.—Bedford Mills Co. will build addition and install new machinery to double carding and spinning capacity; contemplates installing electric power.

WATER-WORKS

Ala., Girard.—J. B. Weakley and Eugene Fies, Birmingham, Ala., are reported as planning to construct water-works. (See Ga., Columbus.)

Fla., Brooksville.—Brooksville Light & Power Co. will extend water mains, construct 1,000,000 standpipe for reserve supply, etc. (See "Electric Plants.")

Fla., Winter Garden.—Winter Garden Light & Water Co., capital stock \$20,000, incorporated with W. H. Reams, president. (See "Electric Plants.")

Fla., Winter Park.—City reserves bids until September 10 for constructing water-works, for which plans were recently noted prepared by John Lloyd Minnis, engineer, Birmingham, Ala. (See "Machinery Wanted.")

Ga., Augusta.—City will expend \$50,000 for extension of water-works system; contracts recently noted awarded to B. F. Roberts, Macon, Ga., for five miles 6-inch, 8-inch and 10-inch water mains, and to Lamar & Glover of Augusta for 150,000 cubic yards excavation; Nisbet Wingfield, City Engineer.

Ga., Bowden.—City votes September 28 on \$8000 bonds to install water-works, \$8000 to

build electric plant and \$4000 to improve streets; W. T. Beck, Mayor pro tem. (See "Electric Plants.")

Ga., Columbus.—W. C. Hamilton, Eugene Fies and John B. Weakley, all of Birmingham, Ala., purchased Columbus Water-works Co.; will elect Mr. Weakley president and Mr. Hamilton secretary-treasurer; will order consulting engineer to examine system with view of determining upon plans for improvements and extensions. (Company recently mentioned as to expend \$250,000 for improvements.)

Ga., Oakhurst.—City voted \$11,000 bonds for water-works; engineer in charge, J. B. McCrary Company, Atlanta. (Recently mentioned.)

Ga., Waycross.—City's plans for water-works include additional well, storage reservoir, improvements to pumping station and installing new boiler; Harry D. Reed, Mayor. (Recently noted as to vote September 21 on \$30,000 bond issue for extension of water-works and sewerage system.)

Ga., Zebulon.—City engaged J. B. McCrary Company, Atlanta, Ga., as engineer for construction of water-works; will open proposals October 1. (See "Machinery, etc., Wanted.")

Ky., Somerset.—United Water, Light & Traction Co. will expend \$20,000 to construct water-works; daily capacity 1,000,000 gallons; filter plant; pump-house; coagulating basin, 40 feet in diameter, 12 feet deep; clear well, 16 feet in diameter and 12 feet deep; pump-house to be 25x50 feet; concrete and brick; bids opened September 3; J. O. Endrist, Jr., engineer in charge, care of Middle West Utilities Co., New Albany, Ind.; recently noted. (See "Machinery Wanted.")

La., Kentwood.—Town receives bids until September 3 to construct 125,000-gallon reservoir of reinforced concrete; plans and specifications on file and obtainable from George F. Conant, engineer; will also drill artesian well 727 feet; flow 600 gallons per minute; pump-house, 30x36 feet; probably brick; bids not advertised; bond issue for water-works and sewers, \$50,000; previously mentioned as receiving bids until May 3 for pumping machinery. (See "Machinery Wanted.")

La., Lake Providence.—City will install additional machinery, including boiler and pump recently noted; bids received September 24; William T. Bell, Mayor. (See "Machinery Wanted.")

Miss., Yazoo City.—City voted against issuing \$17,000 water warrants for additional machinery, etc.; H. W. McCormick, City Clerk. (Call for election lately reported.)

Mo., Kirksville.—City holds election August 30 to vote on issuing \$85,000 water-works bonds. Address The Mayor.

N. C., Smithfield.—City awarded contract to B. C. Copeland, Asheville, N. C. (recently noted as low bidder) for water, electric-light and sewer construction; contract for pole line, pumping machinery and electrical apparatus let to National Electric Supply Co., Washington, D. C. (Other contracts previously noted.)

Okla., Eufaula.—City voted \$40,000 bonds for water-works. Address The Mayor.

S. C., Cheraw.—City will construct water-works and sewer system; former to consist of electric pumping station, tower and tank, reservoir, auxiliary electric pumping station and about five miles 6 to 10-inch mains; bids received until September 17; William Godfrey, chairman; Gilbert C. White, engineer, Charlotte, N. C. (See "Machinery Wanted.")

Tex., Bay City.—City voted \$5000 bonds for extension of water system and installation of additional fire plugs; engineer in charge, A. R. Leckie of Bay City; John Sutherland, Mayor; improvements lately mentioned. (See "Machinery Wanted.")

Tex., El Paso.—W. A. Fortner awarded contract for water-works at Franklin Rancho amusement park; to A. J. Davis, El Paso, for drilling three wells and installing pumping plant; to J. C. Wright, El Paso, for constructing 4,000,000-gallon cement reservoir. Mr. Fortner's offices are in American National Bank Building.

Tex., New Boston.—City will vote on issuing \$15,000 bonds for constructing water-works; George W. George, Mayor.

Tex., Hamilton.—City voted \$8000 bonds for extending water system. Address The Mayor.

Tex., Victoria.—St. Louis & San Francisco Railway, F. G. Jonah, chief engineer of construction, St. Louis, Mo., awarded contract to Anchor Lumber Co., Victoria, to construct water service plant, etc.

Va., Norfolk.—Board of Aldermen appropriated \$13,000 for water mains on Park Pl.; W. T. Brooke, City Engineer.

Va., Portsmouth.—Portsmouth City Water Commission will open bids September 24 for dredging canal 11 miles long, 8 feet deep, 24 feet wide at top and 16 feet wide at bottom, through Dismal Swamp from Norfolk & Western Railroad to Lake Drummond; about 35,000 cubic yards materials to be dredged; plans, specifications, etc., on file; blank forms obtainable at office of commission; W. G. Parker, president. (See "Machinery Wanted.")

W. Va., Barboursville.—City will, it is reported, construct water-works or grant franchise. Address The Mayor.

WOODWORKING PLANTS

Ark., Helena.—Woodwork.—W. H. Denuison will build woodworking plant and sawmill.

Ark., Jennie.—Cooperage.—Arkansas Cooperage Co. (recently noted incorporated with \$15,000 capital stock) will erect building; ordinary construction; cost \$2000; bids opened October 15; cost of machinery \$10,000; daily capacity 50,000 coiled elm hoops; M. P. Walker, engineer in charge. (See "Machinery Wanted.")

Ark., Ruddells.—Staves and Heading.—Arkansas Lime Co. will install stave and heading machinery for manufacture of slack barrel stock. (See "Machinery Wanted.")

Ark., Little Rock.—Staves and Headings.—H. T. Brown Company incorporated with \$10,000 capital stock by H. T. Brown, W. L. Connevey and C. F. Cunningham.

Fla., Elkton.—Heads and Staves.—Everglades Development Co., Norfolk, Va., will expend \$12,000 to erect stave and heading mill; mill construction; machinery will include two saws (single set), heading machinery and sawmill; daily capacity 25,000 staves and 4000 heads. (Recently noted as Farmers Manufacturing Co.)

Fla., Jacksonville.—Boxes.—W. A. and J. H. Jack of Boston, Mass., organized Jacksonville Box Co. and located at 715 Washington St.; will install equipment for manufacturing boxes.

Ga., Macon.—Vehicles.—L. C. Dure is architect for erecting two brick buildings costing \$7500, to be equipped for vehicle repair plant.

La., Sibley.—Staves.—Delta Stave Co., capital stock \$25,000, organized with J. H. Nelson, president; R. H. Nelson, vice-president; D. K. Brown, secretary-treasurer.

Md., Frederick.—Furniture, etc.—Gillman Extension Co. will, it is reported, establish factory for furniture and household refrigerators.

Mo., St. Louis.—Buggies.—Banner Buggy Co. purchased Cooper Carriage Woodwork Co.; will remodel plant and equip with machinery; cost of improvements estimated at \$200,000.

N. C., Kinston.—Carriages.—Ellis Carriage Co. chartered, with \$100,000 capital stock authorized, by J. H. Ellis, L. M. LaRoque and Horace West.

N. C., Salisbury.—Furniture.—G. W. Wright is reported interested in plan to build furniture factory; contemplates erection of two-story 150x75-foot building.

N. C., Stantonsburg.—Boxes.—Stantonsburg Lumber Co. (Houston-White Company, Millsboro, Del.) will rebuild box factory recently burned. (See "Lumber Manufacturing.")

Tenn., Erwin.—Furniture.—L. H. Phetteplace and associates are reported as planning establishment of furniture factory.

Tex., Waco.—Buggies.—Hardy Buggy Co., Paducah, Ky., contemplates building factory.

BURNED

Ala., Attalla.—Dr. E. K. Hanby's residence; loss \$5000.

Ala., Birmingham.—George S. Hale's residence on Shades Mountain; loss \$4500.

Ala., Ensley.—Negro Baptist church; loss \$5000. Address The Pastor, Negro Baptist Church.

Ark., Hamburg.—Hamburg Gin Co.'s cotton gin and grist mill.

D. C., Washington.—Frank Foer Company's store at 722 13th St. N. W., owned by Mr. Tuckerman; loss \$10,000.

Fla., Pensacola.—Crescent Bottling Works.

Fla., Bartow.—T. P. Carpenter Hardware Co.'s buildings; J. N. Hooper's building; George W. Smith's building; garage owned by Joe B. Johnson of Tampa, Fla.; total loss \$35,000.

La., Iota.—Dan Fisher's sawmill.

La., Kinder.—Two buildings owned by Dr. R. E. Oden; loss \$12,000.

La., New Orleans.—Phillips Paper Co.'s plant on Notre Dame St., between Water and

Delta Sts.; reported owned by Louisville & Nashville Railroad, W. H. Courtenay, chief engineer, Louisville, Ky.; loss \$25,000.

Md., Flintstone.—H. Wm. Lonker's sawmill; loss \$3000.

Md., Keedysville.—Baltimore & Ohio Railroad Co.'s passenger and freight station, F. L. Stuart, chief engineer, Baltimore and Charles St., Baltimore, Md.; W. C. Geeting's grain elevator.

Miss., Pass Christian.—Mississippi Gulf Coast Traction Co.'s branch power-house; loss \$10,000.

N. C., Lagrange.—Harry Hodges' residence.

N. C., Winston-Salem.—R. W. and P. A. Gorrill's tobacco factory on West 6th St.; Ogburn-Hill Company's main tobacco factory at Cherry and 6th Sts.; loss \$75,000; C. J. Ogburn's residence, occupied by S. J. Campbell; total loss about \$100,000.

Okla., Oklahoma City.—Atchison, Topeka & Santa Fe Railroad freight depot, loss \$50,000; C. A. Morse, chief engineer, Topeka, Kans.

Okla., Sulphur.—G. W. Sullivan's residence; loss \$3500.

Okla., Dewey.—National Refining Co.'s four oil tanks and 90,000 barrels oil; loss \$175,000.

Okla., Oklahoma City.—Kammerdiener Elevator Co.'s grain elevator; loss \$14,000.

S. C., Rock Hill.—C. N. Steed's residence on East White St.; loss \$4000.

S. C., Smoaks.—F. J. Berry's residence; loss \$5000.

Tenn., Chattanooga.—Page Leather Belt Co.'s building at 1099 Chestnut St.; loss \$20,000.

Tenn., Paris.—Mrs. L. L. Alexander's residence on South Market St.; loss \$3500.

Tenn., Hohenwald.—Fize Building, occupied

by Hohenwald Herald, Citizens' Telephone Co. and others; loss \$45,000. (Recently noted as Hohenwald, Tex.)

Tenn., Waynesboro.—M. A. Rink's stable; loss \$4000.

Tex., Dallas.—A. C. Rink's residence at 3909 Ross Ave.; loss \$7500.

Tex., El Paso.—El Paso Refining Co.'s petroleum refinery; loss \$50,000.

Tex., Elysian Fields.—C. D. Lacy's lumber mill; loss \$5000.

Tex., Houston.—Cheek-Neal Coffee Co.'s warehouse at Carr and Conti Sts.; loss on building, \$40,000 to \$50,000.

Tex., Mt. Vernon.—First National Bank Bldg., loss \$18,000; G. P. Hill's store, loss \$20,000.

Tex., Hearne.—Dillard & Co.'s grain warehouse.

Tex., Karnes City.—Farmers' Gin Co.'s cotton gin.

Tex., Noble.—H. G. Maness' residence; loss \$3500.

Tex., San Angelo.—Concho Dry Goods Co.'s store; loss \$8000.

Tex., San Angelo.—Fred Beck's residence; loss \$4000.

Tex., Uvalde.—Ancient Free and Accepted Masons' building; loss \$4000.

Tex., Voith.—Keith Lumber Co.'s engine and boiler house and engines; loss \$10,000.

Tenn., Covington.—Howard Flowers' residence near Ruffin; loss \$3000.

Va., Petersburg.—Three store buildings owned by Watson Realty Co.; loss \$50,000.

W. Va., Dobra.—Coal River Coal & Coke Co.'s power-house.

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

Ala., Gadsden.—W. P. Lay is reported as to erect apartment-house on Forest Ave. near 8th St.

D. C., Washington.—Mrs. Harry Stanford has plans by N. T. Haller Company, Corcoran Bldg., Washington, for apartment-house at 1229 12th St.

Ga., Macon.—Willingham Loan & Trust Co. is planning to erect apartment-house on 1st St. near Plum St.; four apartments; cost \$8000.

Ga., Savannah.—C. T. Tillman of Quitman, Ga., purchased, it is reported, site at Liberty and Walker Sts. to erect apartment-house.

Ky., Louisville.—J. B. Garthright will erect two-story brick tenement-house in rear of 210 E. Broadway; cost \$1800.

Md., Baltimore.—George R. Morris, Gunther Bldg., is preparing plans for apartment-house at 6 and 8 E. Read St.; three or four stories; brick and stone.

Md., Baltimore.—George H. Elmer, 3302 Windsor Ave., will erect three apartment-houses at Clifton Ave. and Hilton St.; stucco finish; six apartments each; plans by Geo. R. Morris, 46 Gunther Bldg., Baltimore.

Mo., Kansas City.—Lutie S. Norgrove will expend \$44,000 to erect apartment-house; 97x39 feet; 12 apartments; ordinary construction; steam heat; tar and gravel roof; plans by Otis Goddard, 316 Reliance Bldg., Kansas City; no general contract. (Recently noted.)

Mo., St. Louis.—F. J. Thelbes will erect tenement-house at 2317 Red Bud St.; two stories; cost \$5000.

Mo., St. Louis.—C. S. Muerl will erect two two-story tenement-houses at 3817-19 Virginia St.; cost \$6000.

Mo., St. Louis.—Emma Clark will erect two-story tenement-house at 3445-46 Arlington St.; cost \$5000.

Mo., St. Louis.—Timothy O'Callahan will erect two-story tenements at 5729-31 Easton St.; cost \$5500.

Mo., St. Louis.—H. W. Peters will erect two-story tenement-house at 3903-3911 Page St.; cost \$8750.

Mo., St. Louis.—Rev. L. Exampaint will erect two-story tenement-house at 311 Victor St.; cost \$5000.

Mo., St. Louis.—Joseph L. Wyland of Francis-Wyland Building & Realty Co. will erect apartment-house at 5915-17 Washington Ave.; 12 apartments; three stories; cost \$50,000.

Mo., St. Louis.—August Wesolowski will erect single apartment-house on Farlin Ave.

W. Va., Wheeling.—Messrs. Hedges, 734 Main St., acquired site at 604-606 Main St., and will, it is reported, erect apartment-house.

W. Va., Wheeling.—Charles Bachman will erect apartment building.

ASSOCIATION AND FRATERNAL

Ga., Americus.—Americus Lodge No. 13, Ancient Free and Accepted Masons, is considering erection of lodge building; cost \$35,000 to \$40,000.

La., Lake Charles.—Mount Hope Tent No. 1, Order Knights of the Macabees, plans to erect lodge building; three stories; brick; cost \$25,000.

Tenn., Knoxville.—Railroad Young Men's Christian Association, A. C. Van Campen, secretary, will erect building.

Tex., Beaumont.—Knights of Columbus plan to erect lodge building.

Tex., Wheeling.—Osiris Temple, Ancient Arabic Order Nobles of the Mystic Shrine, plans to erect temple; Oriental style; three stories.

Va., Fordwick.—Independent Order of Odd Fellows contemplates erection of lodge building.

Va., Richmond.—Ancient Free and Accepted Scottish Rite Masons will erect cathedral.

BANK AND OFFICE

Ark., Prairie Grove.—Citizens' Bank, Dr. W. H. Mock, president, will erect brick bank building; 25x70 feet; cost \$3000. (See "Machinery Wanted.")

D. C., Washington.—Thomas Somerville Company, 316 13th St. N. W., contemplates no improvements to buildings as recently reported.

D. C., Washington.—Home Savings Bank, 7th St., Massachusetts Ave. and K Sts., has plans by Appleton P. Clark, Jr., 816 14th St. N. W., Washington, for building at 8th and H Sts. N. W.

Fla., Orlando.—Giles & Beacham will erect office and store building at Central and Orange Aves.; five stories; two lower floors for stores; upper floors for offices.

Fla., Wauchula.—Wauchula Bank Building Association will open bids within a week to erect addition to bank building; 40x72 feet; lower story for stores; offices above; fireproof construction; brick; metal roof; electric lighting; cost \$6000 to \$7500; plans by H. P. Read, Tampa, Fla. (Recently noted.)

Ga., Augusta.—Augusta Chronicle Publishing Co. organized Chronicle Building Co. to erect structure for business, news and editorial offices of Augusta Chronicle and offices for rental; pressed brick and hollow tile; fireproof throughout; tile floors; walls wainscoted with Georgia marble; base of building outside and trimmings also of Georgia marble; three elevators; begin construction by November or earlier; structure to be 40x140 feet; 10 stories and basement; nine stories for offices; 16 offices to each floor; cost \$200,000; architect, G. Lloyd Preacher of Augusta.

Ky., Somerset.—O. H. Waddle will expend \$5000 to \$6000 to erect addition to present building for store and offices. (See "Stores.")

N. C., Blowing Rock.—Bank of Blowing Rock contemplates erection of building.

N. C., Greenville.—Greenville Banking & Trust Co. will erect bank building.

N. C., Raleigh.—Raleigh Banking & Trust Co. will erect bank building; three stories; granite.

N. C., Winston-Salem.—Reynolds Farms, R. E. Snowden, chief engineer and general manager, Route No. 2, has plans for office, etc. (See "Dwellings.")

Okla., Tulsa.—Simon Jankowsky will open bids September 5 to erect office and store building previously noted. (See "Stores.")

S. C., Lena.—Bank of Lena contemplates erecting bank building; plans not definite.

Tenn., Sparta.—First National Bank will rebuild bank building recently burned.

Tex., Austin.—H. A. Wroe plans to erect office, store and theater building.

Tex., El Paso.—A. A. Escontrias will erect store and office building. (See "Stores.")

Tex., Goliad.—First National Bank has plans by Green & Finger, Houston, Tex., for bank building; two stories; fireproof; cost \$25,000. (Recently noted.)

Tex., Pleasanton.—First National Bank will erect bank building; two stories; brick.

Va., Richmond.—First National Bank will soon award contract to erect proposed bank building according to plans by Alfred C. Bossom, 366 Fifth Ave., New York.

CHURCHES

Ala., Birmingham.—Walker Memorial Church, Rev. W. W. Dorman, pastor, will erect edifice; gray pressed brick; white stone trimmings; auditorium to seat 900; cost \$30,000.

D. C., Washington.—Guntton Temple, 14th and R Sts. N. W., has plans by MacNeil & MacNeil, Union Trust Bldg., Washington, to remodel building.

Fla., Sorrento.—Baptist Church will erect edifice. Address The Pastor, Baptist Church.

Fla., Gulfport.—Rev. J. H. Daniels is interested in erection of edifice.

Md., Baltimore.—Emmanuel Evangelical Lutheran Church, Pierce & Schroeder Sts., has plans by Alfred Cookman Leach, 323 N. Charles St., Baltimore, for church, parsonage and parish-house at Edmondson and Warwick Aves., on site 127x100 feet; church to be erected first; two stories; 87x60 feet; Tudor Gothic style; Port Deposit granite; cost \$35,000; contractors estimating are Consolidated Engineering Co., Bromo Beltzer Tower Bldg.; C. C. Watts, 113 W. Hamilton St.; John Cowan, Inc., 106 W. Madison St.; Charles Gerwig, Fidelity Bldg.; Piel Construction Co., 2421 Arunah Ave., all of Baltimore. (Previously noted.)

Miss., Jackson.—First Methodist Episcopal Church has plans by R. H. Hunt, Chattanooga, Tenn., for edifice; auditorium to seat 850; Sunday-school to seat 1000.

Miss., Sardis.—Baptist church has plans by Overstreet & Spencer, Seutter Bldg., Jackson, Miss., for edifice; frame; seating capacity 500; cost \$3000.

N. C., Blowing Rock.—Episcopal Church plans to erect edifice. Address The Rector, Episcopal Church.

N. C., Winston-Salem.—North Winston Baptist Church, Rev. David Sampson, pastor, will erect edifice on N. Liberty St.

Tenn., Chattanooga.—Centenary Methodist Episcopal Church has plans by R. H. Hunt, Chattanooga, for Sunday-school building; seating capacity, 2000. (Previously noted.)

Tenn., Hendersonville.—Methodist Church, Rev. G. N. Barnes, pastor, will erect edifice to replace burned structure; brick; stone foundation.

Tex., El Paso.—Houston Square Calvary Baptist Church will erect edifice; cost \$60,000. Address The Pastor, Houston Square Calvary Baptist Church.

Tex., Lockhart.—First Presbyterian Church

will erect edifice; brick, stone and reinforced concrete; 10-foot basement. Address The Pastor, First Presbyterian Church.

Tex., Rhine.—Baptist congregation will rebuild edifice recently damaged by cyclone. Address The Pastor, Baptist Church.

Tex., Rhine.—Presbyterian congregation will rebuild edifice recently damaged by cyclone. Address The Pastor, Presbyterian Church.

CITY AND COUNTY

Ala., Mobile.—Hospital.—City will expend \$50,000 for improvements to City Hospital. Address The Mayor.

Ala., Mobile.—Hospital.—Mobile County Commissioners adopted plans by County Architect Hutchisson, Mobile, for hospital at county poor farm, and will receive bids until October 8 for erection.

Fla., Bradentown.—Jail.—Manatee County Commissioners will receive bids until October 7 to erect courthouse and jail. (See "Courthouses.")

Ga., Atlanta.—Nurses' Dormitory.—City will erect nurses' dormitory at Grady Hospital; cost \$25,000. Address The Mayor.

Ky., Somerset.—City Hall.—City will vote in November on bond issue to construct city hall and sewerage system. Address The Mayor.

La., New Orleans.—Casino and Boathouse. City Park Improvement Association approved plans for casino and boathouse at City Park; two stories; 190x72 feet; 24-foot veranda around entire building.

La., New Orleans.—Library.—City will expend \$25,000 to erect addition to library building; 54 feet 6 inches by 56 feet 10 inches; fireproof construction; heating plant to be connected with present system; present elevator to be placed in new position; composition roof; plans recently noted being prepared by Diboll, Owen & Goldstein, 705 Perrin Bldg., New Orleans.

Mo., St. Louis.—Engine-house.—Charles E. Swingley, fire department, has charge of the erection of engine-house at 9th and Buchanan Sts.

N. C., Sanford.—Home.—Lee County Commissioners will erect county home.

N. C., Winston-Salem.—Hospital.—City will consider preliminary plans for city hospital on September 10, submitted by Beverly S. King of Atlanta, Ga., and New York; P. Thornton Marge of Atlanta, Ga.; Charles M. Robinson, Richmond, Va., and Wheeler & Stern, Charlotte, N. C.; fireproof; steam heat; vacuum cleaning and electric bell system; capacity for 80 beds; laundry; cold-storage room; cost for construction alone, about \$75,000; Drs. C. S. Lawrence, E. A. Lockett and D. N. Dalton, committee. (Recently noted.)

Okla., Bartlesville.—Jail, etc.—Washington county will receive plans and specifications from architects September 4, 10 A. M., for jail, etc.; J. G. Mitchell, County Clerk. (Previously noted as to vote on \$115,000 bond issue for courthouse, jail and sites.)

Okla., Oklahoma City.—Stables.—City purchased site for proposed city stable and asphalt paving plant. Address The Mayor.

Tex., Alpine.—Jail.—Brewster County Commissioners will expend \$12,000 to erect annexes to courthouse and jail; will provide County Clerk's office with fireproof vault.

Tex., Dallas.—Sanitarium.—City will open bids about September 20 to erect tubercular sanitarium; ordinary construction; hot-water heat; gravel walks; shingle roof; cost \$30,000; plans by Jerome G. Harrison, 523 Wilson Bldg., Dallas. (Recently noted.)

Tex., Port Arthur.—City Hall and Fire Station.—City voted \$20,000 bond issue for city hall and \$10,000 for fire station; G. N. Bliss, Mayor. (Recently noted.)

Tex., Waco.—Fire Station.—City will expend \$6500 to \$7500 to erect fire station; 40x75 feet; brick; masonry construction; fireproof roof; plans by T. Brooks Pearson, Waco; bids opened and contract let August 27. (Previously noted.)

COURTHOUSES

Fla., Bradentown.—Manatee County Commissioners will receive bids until October 7 to erect combined courthouse and jail; plans by McGucken & Iyer, Tampa, Fla., call for three-story structure; cream-colored brick walls, supported by reinforced concrete frame; terra-cotta trimmings; plate tile partitions; metal doors and windows; flat tile roof, with high parapets for prison yard; jail on third floor, fireproof; elevator; 120x50 feet; Robert H. Roesch, Clerk of Circuit Court. (Recently noted.)

Okla., Bartlesville.—Washington county

will receive plans and specifications from architects September 4, 10 A. M., for courthouse and jail; cost \$95,000; J. C. Mitchell, County Clerk. (Previously noted as to vote on \$115,000 bond issue for courthouse, jail and sites.)

Tex., Alpine.—Brewster County Commissioners will erect annexes to courthouse and jail. (See "City and County.")

Tex., Cleburne.—Johnson County Commissioners have plans by Lang & Wittich, Dallas, Tex., for courthouse, for which bond issue is to be voted on September 20; three stories and basement; 105x145 feet; tower 124 feet high; first story of granite; upper floors brick; white stone trimmings; fireproof vaults; marble and tiled floors; steam heat; provision of space for elevator to be installed later. (Recently noted.)

Tex., Jefferson.—Marion County Commissioners will erect courthouse.

Tex., Miami.—Roberts County Commissioners' Court will receive bids until September 16 to erect two-story and basement brick and stone courthouse; plans and specifications at office of County Clerk, Miami, and Elmer G. Withers, architect, Stamford, Tex., or may be had on deposit of \$25.

DWELLINGS

Ala., Birmingham.—Atlas Realty Co., R. G. Pierce, president, is having plans prepared for six additional dwellings in Ardus Heights.

Ala., Birmingham.—J. W. Fane will erect two one-story frame dwellings on Eleventh Ave., Norwood; cost \$3200.

Ala., Birmingham.—Mrs. W. M. Miles, 109 Cave Ave., will receive bids through Architect W. A. Rayfield & Co., Echols-Strong Bldg., Birmingham, to erect residence; 40x55 feet; ordinary construction; furnace; electric lighting; metal shingle roof.

Ala., Huntsville.—T. B. Rowzee, 606 Chemical Bldg., will rebuild residence; eight rooms; hot-water heat; gas and electric lighting; metal roof; cost \$5000; date of opening bids not determined. (Recently reported burned.)

Ala., Leeds.—J. Hartsfield of Cardiff, Ala., will erect residence.

D. C., Washington.—Charles H. Taylor, 234 Macomb St. N. W., will erect two-story frame dwelling at 3459 Macomb St.; cost \$5500.

D. C., Washington.—H. R. Howenstein, 1314 F St. N. W., has plans by W. R. Talbott, 1342 New York Ave. N. W., Washington, for two dwellings at 220 and 222 9th St. S. E.; cost \$5000.

D. C., Washington.—Mrs. Mary C. Schafer has plans by Appleton P. Clark, Jr., 816 14th St. N. W., Washington, for residence on Kalorama Rd. near Connecticut Ave.

D. C., Washington.—M. C. List, 1511 L St. N. W., has plans by Spelden & Spelden, 1403 North Carolina Ave. N. W., Washington, for residence at Kennedy St. and 14th St. Terrace.

Fla., De Land.—Dr. Hugh Bracey will erect residence.

Fla., De Land.—Lawson Magruder is preparing plans for residence.

Fla., De Land.—G. A. Dreka plans to erect residence.

Fla., Dupont.—L. G. Willaume, Dupont, Fla., general manager Atlantic, Dupont & Western Railroad, states company intends to erect 200 houses for farmers. Dupont Railway & Land Co., general offices Miller Bldg., Scranton, Pa., has previously been noted (mainly under "Land Developments") as to develop 32,000 acres as farm lands, etc. (See "Machinery Wanted.")

Fla., Jacksonville.—R. D. Drysdale will erect four two-story frame dwellings on Barrs St. between Post and Forbes Sts.

Fla., Miami.—Jack Yarborough will erect ten dwellings in Highland Park.

Fla., Ocala.—Baptist congregation will erect parsonage; 22x31 feet; two stories; frame; grates; electric lighting; shingle roof; cost \$4000; plans by George Mackay, Ocala; bids opened September 1. Address Architect.

Fla., Sorrento.—George C. Battle will erect dwelling.

Fla., Sorrento.—J. D. Kennedy will erect residence.

Fla., Tampa.—J. R. Fielding will erect two dwellings at Boulevard and Azeele St.

Fla., Tampa.—A. E. Brooks will erect bungalow.

Fla., Tampa.—F. M. Curtis will erect bungalow in Seminole Heights.

Fla., Tampa.—Lucius L. Algee will erect bungalow in East Seminole Heights.

Ga., Atlanta.—Mrs. E. W. Wilcox will erect two-story frame residence at 433-435 Spring St.; cost \$4775.

Ga., Atlanta.—J. T. Taylor Realty Investment & Building Co. will erect 15 dwellings on W. 14th St.; one and two stories; cost \$2700 to \$4000 each.

Ga., Atlanta.—J. E. Oliver will erect two-story frame dwelling at 17 Chatham St.; cost \$3500; day labor.

Ga., Atlanta.—Miss C. Warnock will erect two-story frame dwelling at 731 W. Peachtree St.; cost \$6500; day labor.

Ga., Atlanta.—Mrs. J. C. Fuller will expend \$7350 to repair building at 219 Whitehall St.

Ga., Macon.—B. Sanders Walker will erect 10 dwellings.

Ky., Louisville.—Arthur Kaye will erect two-story brick dwelling at Randall and Ray Sts.; cost \$4000.

Ky., Louisville.—G. L. Becker will erect brick-vener dwelling at 654 38th St.; cost \$3800.

Ky., Louisville.—Graves & Rapier will erect five frame cottages on Lytle and Bank Sts. and Pfanz Ave.; cost \$1450 each.

Ky., Richmond.—Board of Regents of Eastern Kentucky State Normal School will receive bids until August 31 for alterations and additions to president's home. (See "Schools.")

La., New Orleans.—Mrs. A. C. Gilbert will erect two-story frame dwelling; cost \$6000.

Md., Baltimore.—Provident Realty Corporation, Garrison & Piedmont Aves., is having plans prepared by Henry J. Tinley, 312 N. Charles St., Baltimore, for dwelling on Elsinor Ave. between Duvall and Carlisle Aves., for Frank MacMullen; one and a half stories; six rooms and bath; shingle construction; slate roof; cost \$4500.

Md., Baltimore.—Penbody Building Co., St. Paul and 26th Sts., has plans by J. E. Laferty, 11 Pleasant St., Baltimore, for 16 cottages on Springdale Ave., near Grantley St.; two stories; ornamental frame; slate roofs; porches; steam heat; electric and gas fixtures; 20x64 feet; cost \$75,000.

Md., Baltimore.—Emmanuel Evangelical Church has plans by Alfred Cookman Leach, 323 N. Charles St., Baltimore, for parsonage, etc. (See "Churches.")

Miss., Jackson.—A. H. Whitfield, Jr., is having plans prepared by Overstreet & Spencer, Seutter Bldg., Jackson, for dwelling; brick and stucco; hot-water heat; cost \$5000.

Miss., Jackson.—R. B. Spencer is having plans prepared by Overstreet & Spencer, Seutter Bldg., Jackson, for dwelling; cost \$4500.

Miss., Jackson.—N. W. Overstreet will erect residence; brick and stucco; hot-water heat; cost \$4000; plans by Overstreet & Spencer, Seutter Bldg., Jackson.

Mo., Kansas City.—Hayden S. Jones, secretary-treasurer Kansas City Bag Co., will erect residence at Huntington Rd. and Broadway.

Mo., St. Louis.—Adam Bode will erect two-story dwelling at 225 Harris St.; cost \$4000.

Mo., St. Louis.—Rev. B. Stalle will erect two-story dwelling at 5811 S. Kingshighway; cost \$6000.

Mo., St. Louis.—Eugene L. Hartrich will erect two-story dwelling at 5756 Deliverville St.; cost \$4600.

N. C., Fayetteville.—Dr. E. J. Carson will open bids September 5 to erect dwelling; 41x47 feet; ordinary construction; hot-water heat; electric lighting; shingle roof; cost \$5500; plans by H. R. Wagner, Rocky Mount, N. C.

N. C., Fayetteville.—D. M. Hall will open bids September 15 to erect dwelling; 33x52 feet; ordinary construction; hot-water heat; gas and electric lighting; shingle roof; cost \$3200; plans by Harry R. Wagner, Rocky Mount, N. C.

N. C., Goldsboro.—J. B. Carr will erect \$5000 residence; has plans by Harry R. Wagner, Rocky Mount, N. C.

N. C., High River (not a postoffice).—W. A. Scott has plans by Harry R. Wagner, Rocky Mount, for dwelling; 37x56 feet; ordinary construction; fireplaces; electric lighting; slate roof; cost \$5000; day labor.

N. C., Kenly.—P. H. Etheridge will open bids September 1 to erect dwelling; 29x49 feet; ordinary construction; electric lighting; shingle roof; plans by H. R. Wagner, Rocky Mount, N. C.

N. C., Mt. Airy.—E. H. Kochitzky is having plans prepared by Wheeler & Stern, Charlotte, N. C., for dwelling; 10 rooms;

granite construction; hot-water heat; electric lighting; slate roof; tile mantels and grates; hardwood floors and trimmings; cement porch floors; copper gutters; cost \$10,000.

N. C., Rocky Mount.—Miss M. E. Bullrich has plans by Harry R. Wagner, Rocky Mount, for dwelling; 40x50 feet; ordinary construction; fireplaces; electric lighting; shingle roof; cost \$3200; day labor.

N. C., Winston-Salem.—Reynolds Farms, R. E. Snowden, chief engineer and general manager, Route No. 2, has plans by W. C. Northrup, Winston-Salem, for gardener's residence and manager's dwelling and office.

Tenn., Memphis.—Thompson & Lawson will erect three six-room frame dwellings at 1927-1928 and 1823 Carr Ave.; cost \$2500 each.

Tex., Corsicana.—J. C. West, of Frank Wood Hardware Co., will erect \$4000 bungalow on S. 16th St.

Tex., Corsicana.—Frank Matthews, of Butler Drug Co., will erect \$10,000 residence in Love addition.

Tex., Dallas.—F. M. Johnson will erect nine-room brick veneer dwelling at 5102 Live Oak St.; cost \$10,000.

Tex., Dallas.—V. R. Walker will erect six-room and nine-room frame cottages on Garrett St.; cost \$2500 and \$4000, respectively.

Tex., Dallas.—J. L. Stephens will erect seven-room frame residence and servants' quarters at 1307 Holland St.; cost \$5300.

Tex., El Paso.—H. I. Mill of Madera Lumber Co. will erect bungalow.

Tex., El Paso.—A. L. Lathrop of Madera Lumber Co. will erect bungalow.

Va., Huguenot Springs.—Dr. M. O. Burke, Richmond, Va., is reported to erect 20 cottages, etc., at Huguenot Springs. (See "Land Development.")

Va., Lynchburg.—Volney E. Howard will erect frame residence on Woodland Ave.; slate roof; cost \$6000.

Va., Lynchburg.—T. E. Murrell will erect frame residence with shingle roof on Woodland Ave.; cost \$4500.

Va., Tazewell.—C. W. Greever, clerk of Board of Supervisors, will receive bids until September 1 to erect residence for superintendent of poor farm of Tazewell county; grading for foundation, furnishing and delivery of stone for same and hauling all materials for building, etc., to be done by county; plans and specifications at office of clerk as above.

GOVERNMENT AND STATE

La., Franklin.—Postoffice.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., opened bids to erect postoffice building; Interstate Construction Co., Saginaw, Mich., is lowest bidder at \$38,570 for either limestone or sandstone construction. (Previously noted.)

Md., Frostburg.—Postoffice.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., opened bids to erect postoffice; Olin Gerlach, Frostburg, is lowest bidder at \$25,718. (Recently noted.)

N. C., Raleigh.—Postoffice and Courthouse.—Treasury Department, office of supervising architect, Oscar Wenderoth, Washington, D. C. Proposals received at this office until 3 P. M. October 1 for extension, remodeling, etc. (including plumbing, gaspiping, heating apparatus, electric conduits and wiring and interior lighting fixtures), of United States postoffice and courthouse at Raleigh; work contemplated is construction of three-story, basement and unfinished attic; about 6300 square feet ground area; first floor only fireproof; exterior facing, stone; drawings and specifications obtainable from custodian at Raleigh or at this office, at discretion of supervising architect.

HOTELS

Fla., Miami.—Green Tree Inn Co. will erect addition to and improve hotel.

Fla., Boca Grande.—Charlotte Harbor & Northern Railroad has plans by F. J. Kennard, Tampa, Fla., for tourist hotel; 75 rooms.

Fla., Lakeland.—A. D. and D. B. Kibler of Dunnellon, Fla., have plans by McIver & MacKay, Ocala, Fla., for hotel; 100x120 feet; 80 to 95 rooms; reinforced concrete with buff brick veneer finish; cost \$100,000.

Fla., Miami.—W. R. Ogden, Lemon City, Fla., purchased Commercial Hotel on 12th St. and will rebuild same, using only walls of present structure; roof garden with portable roof.

Ky., Augusta.—Keystone Construction Co., S. B. Chunn, manager, Mayssville, Ky., proposes erection of hotel; concrete; three sto-

ries and basement; 60 guestrooms; fireproof; 30x30 feet.

Ky., Jackson.—M. S. Crain, W. E. Williams and J. C. Hurst are promoting erection of \$20,000 hotel on Broadway.

Miss., Moss Point.—H. C. Herring, it is reported, will erect hotel; cost \$25,000.

S. C., Hartsville.—A. L. Abbott, secretary of Arcade Hotel Co., will receive bids until September 10 to erect Arcade Hotel; three stories and basement; 15x136 feet; certified check for \$1000 payable to A. M. McNair, treasurer; proposals received either for entire work, complete, or separate bids for construction proper, plumbing, gaspiping, electrical work, heating and elevator; plans and specifications from Ernest V. Richards, architect, Bennettsville, S. C. (Previously noted.)

Tenn., Memphis.—Hanker & Cairns, architects, 528 Scimitar Bldg., state plans and specifications will be ready for general and subcontractors September 1 for Chickasaw Hotel to be erected by B. Brinkley Snowden; structure to be 50x175 feet; eight stories; cost \$500,000. (Previously noted.)

Tenn., Nashville.—Q. B. Love of Madisonville, Ky., purchased Jordan Hotel and will remodel, erect dining-room and additional bedrooms and provide three stores on lower floor.

Tex., El Paso.—W. A. Fortner is arranging to erect hotel, etc. (See "Miscellaneous.")

Tex., Greenville.—United Commercial Travelers of America, Greenville Council No. 271, contemplates erecting five-story fireproof hotel; cost about \$200,000; C. E. Dixie, secretary, may be addressed.

Tex., Houston.—M. De George is reported as to erect building (probably for hotel) at La Branch St. and Preston Ave.; 125x45 feet; fireproof; reinforced concrete or brick facing with concrete filling; six stories.

Va., Huguenot Springs (not a postoffice).—Dr. M. O. Burke, Richmond, Va., will, it is reported, organize company to develop Huguenot Springs property, erect hotel, 20 cottages, etc. (See "Land Development.")

W. Va., Berkeley Springs.—Alexander McNeil, 1641 R St. N. W., Washington, D. C., and associates are reported as to have leased Berkeley Springs property and to expend \$150,000 to erect hotel and \$10,000 to improve springs.

MISCELLANEOUS

Ala., Foley.—Dairy Barn.—Frank W. Kuhn will erect dairy barn; 44x54 feet; concrete foundation, floors, feed troughs and alleyways; steel stanchions.

Fla., Bartow.—Clubhouse.—J. P. Wilson, Chicago, Ill., and T. R. Beall, Dallas, Tex., contemplate erection of clubhouse near Bartow; cost \$50,000.

Fla., Jacksonville.—Shed.—South Jacksonville Ferry Co. will erect ferry shed; cost \$5000.

Ga., Montezuma.—Barn.—McKenzie & Hangabook will erect mule barn.

La., Lockport.—Shrimp Platform.—Fishermen's Union, Maxine Lefort, president, New Orleans, La., will erect platform in Thibauter Lake for peeling and drying shrimp; 100x224 feet; two houses 18x30 feet; drying shed 30x30 feet.

Md., Baltimore.—Parish-house.—Emmanuel Evangelical Lutheran Church has plans by Alfred Cookman Leach, 323 N. Charles St., Baltimore, for parish-house, etc. (See "Churches.")

N. C., Asheville.—Clubhouse.—Asheville Country Club, Thomas Wadley Raoul, president, will enlarge clubhouse.

N. C., Winston-Salem.—Orphanage.—Methodist Children's Home, H. A. Hayes, superintendent, will erect proposed central building; two stories; brick.

N. C., Winston-Salem.—Barn.—Reynolds Farms, R. E. Snowden, chief engineer and general manager, Route No. 2, has plans by C. B. Keen, Philadelphia, Pa., for reinforced concrete barn.

Tenn., Chattanooga.—Motordome.—Chattanooga Bicycle Co., Wells A. Boyd, Jr., manager, and others are promoting erection of motordome; two entrances; one-quarter-mile race course; electric lights to permit night racing; large area in center for baseball diamond or gridiron; passageway for automobiles and motor cycles under seats; seating capacity 10,000 to 15,000; cost \$10,000.

Tenn., Knoxville.—Nurses' Home.—Lincoln Memorial Hospital, Dr. Hubbel, president, will erect training school and permanent home for nurses; cost \$20,000.

Tex., El Paso.—Resort.—W. A. Fortner, representing capitalists, is reported as arrang-

ing to establish resort; will erect hotel, casino, etc., and construct 15-mile race course.

Va., Alexandria.—Armory.—Alexandria Light Infantry will expend about \$8000 to remodel armory; will raise roof six feet and erect additional story; 65x95 feet; brick; steam heat; gas and electric lighting; tin or composition roof; plans by Speiden & Speiden, 1409 New York Ave., Washington, D. C.; date of opening bids not set.

RAILWAY STATIONS, SHEDS, ETC.

Fla., Pensacola.—Gulf, Florida & Alabama Railroad, G. A. Berry, chief engineer, will erect passenger terminals, sheds, etc., recently noted. (See "Miscellaneous Construction.")

Ky., Pineville.—Louisville & Nashville Railroad, W. H. Courtenay, chief engineer, Louisville, Ky., will erect 30-foot addition to depot.

Mo., Joplin.—Missouri, Oklahoma & Gulf Railway, J. J. Harrison, chief engineer, Muskogee, Okla., and Missouri Pacific Railway System, E. F. Mitchell, chief engineer, St. Louis, Mo., will, it is reported, erect depot.

Mo., St. Joseph.—Chicago, Burlington & Quincy Railroad Co., W. L. Breckinridge, chief engineer, Chicago, Ill., will erect freighthouse.

Mo., Nichols.—St. Louis & San Francisco Railroad Co., M. C. Byers, chief engineer, Springfield, Mo., will probably rebuild station recently reported burned.

Tenn., Memphis.—Illinois Central Railroad, A. S. Baldwin, chief engineer, Chicago, Ill., is arranging to erect \$3,000,000 depot, for which plans were prepared by D. H. Burnham & Co., Chicago, Ill.; will ask for bids for 250,000 cubic yards of grading, 250,000 cubic yards of elevated track work; about 100,000 tons of river sand and gravel; all marble, stone and steel work for depot and office building, which will cost \$2,000,000; building will be eight stories; 200x130 feet; brick and stone construction. (Recently noted.)

SCHOOLS

Ala., Capitol Heights.—Harvey E. Jones, Clerk of the Council, will receive bids to enlarge and improve Town School building according to plans on file in his office; J. S. Pinckard, Mayor.

Fla., Dade City.—City will vote on \$15,000 bond issue, including \$3000 to aid in erecting school. Address The Mayor.

Fla., Orlando.—School Board is having plans prepared by L. Percival Hutton, McNeil-Davis Bldg., Orlando, for school building; three stories; 12 classrooms and auditorium, manual training, domestic science, physical and chemical laboratories. (See "Machinery Wanted.")

Ga., Augusta.—E. H. Callaway, president board of directors, will receive bids until September 10 for labor and material for changes, alterations and additions to orphan asylum building for use as medical college; plans and specifications at office of G. Lloyd Preacher, architect, Augusta, or may be had on deposit of \$10; proposals submitted only approximately with lump sum or percentage price added to cost of doing work.

Ky., Paducah.—Bids received until August 26 by W. M. Karnes, chairman of building committee, at Superintendent Carnegie's office to erect school; plans and specifications at office of A. L. Lassiter, architect, Paducah.

Ky., Richmond.—Board of Regents, Eastern Kentucky State Normal School, will receive bids until August 31 for alterations and additions to president's home; also until September 5 for alterations and additions to girls' dormitory; separate or lump bids for each contract; certified check for 2 per cent. amount of bid with each proposal; plans and specifications at office of State Normal School, Richmond, and C. C. and E. A. Webber, architects, Cincinnati, Ohio.

Md., Baltimore.—Board of Awards, James H. Preston, president, will receive bids through Richard Gwinn, City Register, until September 4 to erect No. 27 School at Fayette and Chester Sts.; certified check for \$500, payable to Mayor and City Council; plans and specifications at office of C. E. Stubbs, Inspector of Buildings, City Hall; contractors estimating are Singer-Pentz Company, 600 Equitable Bldg.; P. J. Cushman, 218 St. Paul St.; L. Schoenlein & Son, 2216 Boyer St.; William A. Parr, 1307 E. Lafayette Ave.; Consolidated Engineering Co., Bromo-Seltzer Tower Bldg.; T. B. Stanfield & Co., 103 St. Paul St.; Joseph Schamberger, 2122 E. Baltimore St.; J. L. Robinson Com-

pany; J. K. McIver, 7 Clay St.; Henry S. Ripple, 17 Clay St.; Charles L. Stockhausen, National Marine Bank Bldg.; Fred Decker & Son, 1209 E. Biddle St., all of Baltimore.

Md., New Windsor.—Baltimore Presbytery purchased property; will remodel present building, erect new structure and establish college; Rees, S. M. Engle of Ellicott City, Md.; John McKenzie of Roland Park, Md.; T. F. Dixon of Frederick, Md., and others, committee.

Md., Towson.—State Normal School Site Commission, J. Charles Lathicum, chairman, 217-219 St. Paul St., Baltimore, Md., selected site on York Rd. near Towson as location for Normal School, for which Legislature appropriated \$600,000. (Previously noted.)

Mo., St. Louis.—Sealed proposals received at office of Building Department, Board of Education, 9th and Locust Sts., St. Louis, September 3 to erect Southern High School; letting No. 1486—building complete, excluding plumbing, sewerage, gasfitting, heating and ventilating, air washer, heat regulation, electric work and vacuum cleaning system, deposit of \$10,000 with bid; letting No. 1487—plumbing, sewerage and gasfitting, deposit of \$300; letting No. 1488—heating and ventilating, deposit \$2400; letting No. 1489—air washer, deposit \$550; letting No. 1490—heat regulation, deposit \$450; letting No. 1491—electric work, deposit \$825; letting No. 1492—vacuum cleaning system, deposit \$350; letting No. 1493—building complete, including lettings Nos. 1486 to 1492, inclusive, deposit \$10,000; all bids on blanks furnished by Building Department; specifications on file at office of department; cost of structure about \$625,000; Hans C. Toensfeldt, commissioner school buildings. (Recently noted.)

Okla., May.—Board of Education is receiving bids to erect two-story brick school.

Tenn., Chattanooga.—J. B. Brown, superintendent of Hamilton County Schools, will receive bids until August 29 to erect grammar school and heating system in same at Oak Grove; certified check for \$500, payable to J. A. Hargraves, chairman; plans and specifications at office of Huntington & Sears, 1202-1204 James Bldg., Chattanooga. (Recently noted.)

Tex., Bay City.—Middlefield School District voted \$3500 bond issue to erect school. Address District School Trustees.

Tex., Bennettboro (not a postoffice).—W. A. Rayfield & Co., Echols-Strong Bldg., Birmingham, Ala., will open bids September 15 to erect school building; 350x100 feet; fireproof construction; steam heat; electric lighting; slate roof; cost \$190,000.

Tex., Campbell.—City voted \$12,000 bond issue to erect school. Address The Mayor.

Tex., Cooper.—City will vote September 7 on bond issue to erect addition to school. Address The Mayor.

Tex., Gonzales.—Gonzales School District voted \$30,000 bond issue to erect school. Address District School Trustees. (Recently noted.)

Tex., Houston.—City will receive bids until September 9 to erect two-story-and-basement fireproof school; work to be let in five parts, as follows: General work; plumbing, sewerage and gasfitting; vacuum steam heating; vacuum cleaning; cement floors in basement, sidewalks and shell drives; certified check with general bid for 10 per cent. amount of bid, and with other bids for 20 per cent. of bid, payable to H. B. Rice, Mayor; plans and specifications at office of City Secretary and Ole J. Lorehn, architect, Houston.

Tex., Odem.—School Board will receive bids until September 3 to erect two-story brick school; ordinary construction; tile roof; certified check for \$250; plans and specifications at office of Stephenson & Heldenfels, architects, Beville, Tex., or may be had on deposit of \$10.

Tex., Ralls.—City will erect proposed \$15,000 school building. Address The Mayor.

Tex., Temple.—Little Flock District School Trustees are receiving bids to erect two-room brick school.

Va., Manchester.—Manchester School District will vote on \$35,000 bond issue to erect six-room \$15,000 school at Oak Grove and eight-room \$20,000 school at Swansboro. Address District School Trustees.

W. Va., Shinnston.—School Board is having plans prepared by F. L. Packard, Columbus, O., to erect school; cost \$30,000.

W. Va., St. Albans.—School Board, independent school district, E. F. Hudleston, secretary, will expend \$12,000 to \$13,000 to erect high school building; 50x75 feet; brick; steam heat; gas lighting; slate roof; plans by W. L. Blaker. (Recently noted to receive bids until August 31.)

STORES

Ala., Birmingham.—Dean, Eley & Robertson will erect wholesale drug store building; four stories; brick; 25x140 feet; fireproof; electric elevators; sprinkler system; cost \$25,000 to \$30,000.

Ala., Leeds.—Lee & Kincaid will erect building at Elm St. and Eleventh Ave.

Ala., Leeds.—George W. Hurst & Sons contemplate erection of brick store building.

D. C., Washington.—A. V. Grimes, 1212 F St. N. W., has plans by Rich & Fitz Simons, Bond Bldg., Washington, for store at 708 13th St. N. W.

D. C., Washington.—Charles Sonne, 1361 Irving St. N. W., will erect four one-story brick stores at 3031-37 14th St. N. W.; cost \$8000.

D. C., Washington.—E. H. and C. A. Droop, 1300 G St. N. W., have plans by Harding & Upman, Woodward Bldg., Washington, for addition to building at 1407 H St. N. W.

Fla., Jacksonville.—J. M. Welbrock will erect two-story brick building on Union St. between Catherine and Ionla Sts.

Fla., Jacksonville.—N. E. Reichard will erect three two-story frame additions on Talleyrand Ave. between Albert and Hill Sts.

Fla., Jacksonville.—J. E. Dickerson will erect two two-story frame additions at 6th and Hubbard Sts.

Fla., Miami.—Walter Waldin, Philip Ullendorf and Dan Hardie will open bids about January 1 to erect store building; 150x150 feet; six stories; first floor for stores; remaining floors for offices or hotel; cost \$100,000. (Recently noted.)

Fla., Orlando.—Giles & Beacham will erect store and office building. (See "Bank and Office.")

Fla., Sarasota.—James G. Blythe and Jas. E. Moore, Mason City, Iowa., purchased property, it is reported, and will erect building on Main St.

Fla., Wauchula.—Wauchula Bank Building Association will open bids within a week to erect addition to building; lower floors for stores. (See "Bank and Office.")

Ga., Macon.—Alfred Willingham purchased two buildings adjoining present building and will expend several thousand dollars for improvements; will install marble front; extend both 20 feet in rear, etc.

Ga., Macon.—B. Sanders Walker purchased Lesser Bldg. and will make improvements, including marble front, etc.; cost \$40,000.

Ky., Somerset.—O. H. Waddle will expend \$5000 to \$6000 to erect addition to present building for store and office purposes; 40x25 feet; ordinary construction; brick; steam heat; electric lighting; tin roof; plans by G. L. Rowe, Lexington, Ky.; date of opening bids not set. (Recently reported as letting contract.)

La., New Orleans.—S. O. Terry will expend \$12,000 to remodel and repair building at Charles St. and Exchange Al.

La., New Orleans.—Mrs. E. Vignaud will expend \$4000 to erect addition to and alter building on Bayou Rd.

Md., Baltimore.—Louis Stein, 2015 McCulloh St., will erect either store or vaudeville theater on Columbia Ave. near Scott St.

Md., Baltimore.—Henry Mayer, 1109-13 Light St., has plans by J. C. Spedden, 1649 Hanover St., Baltimore, for addition to store at 1107 Light St.; three stories; brick; plate glass front; 17x70 feet.

Md., Baltimore.—Robert Kinnier, 413 W. Fayette St., will remodel building at 415 W. Fayette St. for business purposes; will erect additional story and addition 27x40 feet; plans by Callis & Callis, 2057 Kennedy Ave., Baltimore; cost \$6000; construction by owner.

Mo., Hannibal.—Bids received until August 27 by Rorabaugh-Wiley Dry Goods Co. to erect store at First Ave. and Main St.; eight stories.

Miss., Jackson.—O. B. Taylor has plans by Overstreet & Spencer, Scutter Bldg., Jackson, for store building; to contain three stores; one story; plate and prism glass; cost \$4000.

Mo., Kansas City.—Chambers estate, G. R. Chambers, representative, purchased site at Walnut and 12th Sts. and will erect business building.

N. C., Cherryville.—David P. Dellinger will erect building on Main St.; two stories; double front.

N. C., Elm City.—G. A. Barnes has plans by Harry Wagner, Rocky Mount, N. C., for \$9000 store building.

N. C., Lenoir.—Lenoir Drug Co. will erect building to replace present structure; three stories; 50x70 feet; plate-glass front.

N. C., Lenoir.—A. A. Blackwelder will erect building to replace present structure.

N. C., Siler City.—H. H. Elder is reported as to erect business building; two stories; brick; 50x100 feet.

Okl., Tulsa.—Simon Jankowsky will open bids September 5 to erect store and office building; plans and specifications from Winkler & McDonald, architects, Tulsa, on deposit of \$50; certified check \$5000. (Previously noted.)

S. C., Charleston.—H. H. Gardener will erect building at 21 Meeting St.; cost \$10,000.

S. C., Greenville.—D. D. Davenport has plans by S. P. Tinsley, Spartanburg, S. C., for store building; 32x119 feet; brick; three stories; gravel roof; day labor. (Recently noted.)

Tenn., Johnson City.—Mason & Tarr will receive bids until August 30 to complete business building partially built; plans and specifications at Mason Drug Co.'s store.

Tenn., Nashville.—Q. B. Love of Madisonville, Ky., will remodel Jordan Hotel for stores, etc. (See "Hotels.")

Tenn., Sparta.—Sparta Improvement Co. organized to rebuild three stores to replace structures recently reported burned.

Tex., Austin.—H. A. Wroe plans to erect store, theater and office building.

Tex., Beaumont.—H. C. Mauer, Beaumont, is preparing plans for improvements to Gordon Bldg. on Pearl St., to cost \$10,000.

Tex., Dallas.—B. R. Parks will expend \$55,000 to alter and remodel building at 1518 Elm St.

Tex., El Paso.—A. A. Escobedo will erect store and office building at San Francisco and Santa Fe Sts.; two stories; brick; five stores on lower floor; about 20 offices above; hot and cold running water in all rooms; cost \$20,000; will be known as Marcelina Bldg.

Tex., Houston.—Jesse H. Jones will erect building at Main St. and Rusk Ave.; to be occupied in part by Thomas Goggan & Bros.

Tex., Itasca.—M. W. Webb will open bids about September 1 to rebuild store; 65x100 feet; cost \$500; plans not made. (Recently noted burned.)

Tex., Plainview.—T. A. Johnson, Paris, Tex., is having plans prepared for brick business building.

THEATERS

Ala., Demopolis.—John C. Webb will probably rebuild theater; plans not determined. (Recently reported burned.)

D. C., Washington.—Bates Warren, Columbian Bldg., has plans by Rich & FitzSimons, Columbian Bldg., Washington, for Franklin Square Theater at 14th and I Sts. N. W.

D. C., Washington.—Fred W. Holtzman has plans by Spelden & Spelden, 1403 North Carolina Ave. N. W., Washington, for moving-picture theater at 1365 H St. N. E.

Ga., Macon.—B. E. Willingham will improve former Savoy Theater building at cost of about \$7000.

La., New Orleans.—Josiah Pearce & Sons acquired building at 610-12 Canal St., and is reported to expend \$100,000 to remodel same for moving-picture theater.

Tex., Austin.—H. A. Wroe plans to erect theater, store and office building.

WAREHOUSES

Ala., Birmingham.—Highland Delivery Co. will erect two-story frame building at Eleventh Ave. and 26th St.; cost \$3500.

Ala., Montgomery.—W. J. Toole is having plans prepared by C. Frank Gallher, 425 Bell Bldg., Montgomery, for warehouse; 50x135 feet; brick and ordinary construction.

Ark., Jonesboro.—Purvey Jones Grocery Co. will expend \$20,000 to erect warehouse; 150x150 feet; fireproof construction; steam heat. (Recently noted.)

Fla., Fellsmere.—Florida East Coast Lumber Co., G. F. Paddison, president, Eau Gallie, Fla., will erect lumber shed 24x150 feet; also office and warehouse building.

Ky., Carlisle.—Burley Tobacco Society, Lexington, Ky., will erect warehouse; two stories and basement; brick; daily sales capacity of 200,000 pounds; cost \$35,000.

Ky., Louisville.—Ross Warehouse Co., incorporated by William Ross, A. S. Chesser and Charles D. Ross.

Ky., Maysville.—Home Loose Leaf Tobacco Warehouse Co. organized with \$25,000 capital stock by J. H. Kehoe, J. W. Fitzgerald, J. C. Everett and others; will erect warehouse probably at Forest Ave. and Lexington St.; steel and concrete; 200x317 feet; daily sales capacity of 1,000,000 pounds tobacco.

Ky., Paris.—Bourbon Tobacco Warehouse Co. incorporated with \$35,000 capital stock by C. M. Clay, A. P. Adair and others.

N. C., Asheville.—Hertford County Farmers' Union Warehouse Co. incorporated with \$25,000 capital stock by J. N. Hollomon, R. H. Overton and others.

S. C., Fort Mill.—Fort Mill Manufacturing Co.'s warehouse will be two stories; 50x100 feet; ordinary construction; owners will erect. (Recently noted.)

Tex., Greenville.—Graham-Hendon Company will erect storage building on N. Johnson St. for Herndon Grocery Co.; two stories and basement; brick.

Tex., Houston.—Cheek-Neal Coffee Co. will rebuild warehouse reported burned at loss of \$30,000 to \$50,000.

Tex., Tyler.—Tom Swan will erect building 70x110 feet; two stories; brick; lower floor for warehouse; upper floor for overall factory.

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

Md., Baltimore.—Dr. Otto Schaefer, 951 Madison Ave., awarded contract to Consolidated Engineering Co., Bromo Seltzer Tower Bldg., Baltimore, to remodel residence at 1105 Madison Ave. for apartment-house; will install new front, hardwood floors, etc.; structure will be 25x100 feet; ordinary construction; steam heat; electric lighting; slag roof; cost \$8000.

N. C., Kannapolis.—J. W. Cannon, Concord, N. C., will erect 20 three-room, 30 four-room and 5 five-room tenement-houses for mill employes; shingle roof; contract recently noted awarded to John R. Quers, Concord, N. C. (See "Machinery Wanted.")

Tex., Denison.—N. C. Calvert awarded contract to E. E. Badgett, Denison, to erect apartment-house at 515 W. Woodard St.; two stories; frame; eight apartments of four rooms, bath and lavatory; electric and gas lights; concrete foundation.

Va., Richmond.—Mrs. Josephine O'Grady awarded contract to G. N. Skelton, Richmond, to erect brick tenement-house; cost \$6000.

Va., Richmond.—S. G. Meredith awarded contract to W. H. Richardson, Richmond, to erect two two-story brick tenement-houses; cost \$6000.

ASSOCIATION AND FRATERNAL

Ark., Welner.—Independent Order of Odd Fellows awarded contract to H. E. Keck, Harrisburg, Ark., to erect two-story frame and ironclad building.

Tex., McKinney.—Benevolent Protective Order of Elks awarded contract to Jones & Cooper, McKinney, to erect club building; two stories and basement; 50x130 feet; cost \$12,000.

Tex., Plantersville.—Ancient Free and Accepted Masons awarded contract to Elias Winkler, Plantersville, to erect lodge and store building; two stories; 30x50 feet.

Va., Norfolk.—Benevolent and Protective Order of Elks, No. 38, awarded contract to Jesse Johnson, 619 Law Bldg., Norfolk, to erect club building; 35x110 feet; two stories and basement; ordinary construction; brick, steel and wood; tile roof; cost \$30,000; plans by Ferguson, Calrow & Taylor of Norfolk; separate contracts for heating, plumbing, lighting fixtures, finish hardware and bar case. (Previously noted.)

BANK AND OFFICE

Ala., Selma.—Dr. A. W. Jones awarded contract to remodel building at Water and Lauderdale Sts. for offices, stores and hall.

D. C., Washington.—Washington Six Per Cent. Permanent Building Association, 629 F St., awarded contract to Melton, Construction Co., 11th and H Sts. N. W., to erect office building at present location; cost \$23,500; plans by A. P. Clark, Jr., 816 14th St. N. W., Washington.

Fla., St. Petersburg.—Southern Express Co., main office, 71 Broadway, New York, awarded contract to C. W. Springstead, St. Petersburg, to erect office building; brick; 25x50 feet; concrete floors.

Ga., Omega.—Omega Bank awarded contract to C. P. McDonald, Moultrie, Ga., to erect bank building; brick, stone and plate glass.

Md., Cumberland.—Western Maryland Railway Co., H. R. Pratt, chief engineer, Hillen Station, Baltimore, Md., awarded contract to erect freight warehouses and office building, etc. (See "Warehouses.")

Tex., St. Jo.—First National Bank awarded contract to B. A. Johnson & Co. (not B. A. Jackson, as recently noted), Ryan, Okla., to erect bank and office building; 26x32 feet; two stories; mill construction; galvanized-iron roofing; cost \$7000; plans by Glenn Bros.

Tex., Temple.—C. W. Wilson awarded contract to erect business and office building. (See "Stores.")

CHURCHES

N. C., Granite Falls.—Lutheran Church awarded contract to C. R. Payne, Granite Falls, to erect proposed edifice; brick; concrete floor; cost \$4000.

Tenn., Hall's.—Baptist church awarded contract to B. A. Enloe, Martin, Tenn., to erect edifice; cost \$10,500.

Tenn., Jellico.—First Baptist Church, Rev. J. E. Martin, pastor, awarded contract to S. W. Enslly, Williamsburg, Ky., to erect proposed edifice; to contain 22 Sunday-school rooms, two auditoriums and basement, 94x68 feet; pressed brick; Bedford stone trimmings; steam heat; electric lighting; cost \$25,000; plans by R. F. Graf & Sons, Knoxville, Tenn. (See "Machinery Wanted.")

CITY AND COUNTY

Ala., Anniston.—Jail.—Calhoun County Commissioner awarded contract to Little-Clecker Construction Co. to erect jail, and to Pauly Jail Building Co., St. Louis, for cell work; plans by H. B. Wheelock, Birmingham, Ala. (Previously noted.)

Ky., Manchester.—Jail.—Clay county awarded contracts to erect jail as follows: general contract to J. R. Bushill, Manchester; steel cells and structural iron work to Stewart Iron Works Co.; heating plant to Peck-Hammond Company, both of Cincinnati, O.; plumbing and fixtures to Herok, Covington, Ky.; mill work and hardware to London (Ky.) Manufacturing Co.; plans by Pauly Jail Building Co., St. Louis, Mo. (Previously noted.)

Md., Westminster.—Jail.—County Commissioners awarded contract to B. F. Smith Fireproof Construction Co., 817 14th St. N. W., Washington, D. C., to remodel jail.

Tex., Dallas.—Fire Station.—City awarded contract at \$18,511 to Crisman & Nesbit, Dallas, to remodel Central Fire Station; plans by Lang & Wittich, Dallas. (Recently noted.)

COURTHOUSES

Ala., Montgomery.—Montgomery county awarded contract at \$9600 to R. E. J. Majors, Troy, Ala., to remodel interior of courthouse, including erection of grand jury room and general repairs to inside woodwork.

Ark., Fort Smith.—Sebastian County Commissioners awarded contract to Falls City Construction Co., Louisville, Ky., to erect courthouse; cost \$270,000; plans by J. T. W. Jennings, Fort Smith. (Recently noted.)

Ky., Catlettsburg.—Boyd County Commissioners awarded contract to Falls City Construction Co., Louisville, Ky., to erect courthouse; two stories; brick; cost \$60,000; plans by E. N. Algers, Robinson-Prichard Bldg., Huntington, W. Va. (Recently noted.)

Tex., Montague.—Montague county awarded contract to A. Z. Rogers, Henrietta, Tex., to erect courthouse; 50x120 feet; reinforced concrete; steam heat; electric lights; plans by George Burnett, Amicable Bldg., Waco, Tex. (Recently noted.)

DWELLINGS

Ala., Bessemer.—Sloss-Sheffield Steel & Iron Co., Birmingham, Ala., awarded contract to Crotwell Bros. Lumber Co., Bessemer, to erect 30 dwellings near Sloss Mines; two, three and four rooms; twenty 16x32 feet, twenty 16x42 feet and five 22x28 feet; frame; Amalgamated Roofing Co.'s red plastic tile roof; cost \$16,000; plans by T. M. Fletcher, chief engineer of company.

Ala., Gadsden.—Mrs. J. B. Nowlin awarded contracts to erect several cottages; cost \$15,000.

Ark., Little Rock.—J. Rodger Young awarded contract to William Peterson to erect proposed dwelling; 38x18 feet; frame veneered; hot-water heat; electric lighting; cost \$12,000; plans by J. L. Howard, Gazette Bldg., Little Rock.

D. C., Washington.—Frank B. Essex, 3134 South St. N. W., awarded contract to R. P.

Whitney to erect dwelling at 3902 Reno Rd.; cost \$4500; plans by MacNeil & MacNeil, Union Trust Bldg., Washington.

D. C., Washington.—Henry M. Foote, Corcoran Bldg., awarded contract to John G. Harris to erect two-story brick dwelling at 1435 Kennedy St.; cost \$6000; plans by James A. Clark.

D. C., Washington.—A. F. Lucas, 1406 16th St. N. W., has plans by and awarded contract to Clark Waggaman, 1124 Connecticut Ave. N. W., Washington, to erect two and a half story brick dwelling at 2300 U St. N. W.; cost \$20,000.

D. C., Washington.—W. S. McAllister awarded contract to Davis Construction Co., Union Trust Bldg., Washington, D. C., to erect dwelling and garage; former 35x70 feet; latter 20x30 feet; ordinary construction; hot-water heat; electric lighting; slate roof; plans by Wood, Donn & Deming, 808 17th St., Washington. (Recently noted to cost \$20,000.)

D. C., Washington.—Reeve Lewis, 1427 21st St., awarded contract to C. A. Langley, 310 12th St. N. W., Washington, to erect four-story brick dwelling and garage at 2124 Hancock Pl. N. W.; cost \$20,000; plans by T. J. D. Fuller, 806 17th St. N. W., Washington.

Ga., Atlanta.—I. H. Moreland, Jr., awarded contract to M. E. Connell & Wice, Atlanta, to erect one-story frame dwelling at 48 Park Lane; cost \$1000.

Ga., Atlanta.—Mrs. S. M. Whitner awarded contract to T. C. & Paul Wesley, Atlanta, to erect two-story frame dwelling at 168 Linwood St. and two-story brick veneer dwelling at 633 Ponce de Leon St.; cost \$3500 and \$5000, respectively.

Ga., Atlanta.—W. E. Newill awarded contract to C. L. Adams & Bro., Atlanta, to erect two-story frame dwelling at 33 McLendon St.; cost \$3500.

Md., Baltimore.—Gottschalk Company awarded contract to Fisher Bros. to erect store and dwelling according to plans by John H. Fisher, 827 W. Cross St., Baltimore. (See "Stores.")

Md., Baltimore.—Downing & Murphy, 537 Franklin Ter., have plans by and awarded contract to J. S. Downing, 403 Greenmount Ave., Baltimore, to erect 12 two-story dwellings on west side of Rose Hill Ter. and Old York Rd.; 21x35 feet; ornamental brick; marble trimmings; cement sidewalks and cellar; slag roofs; steam heat; electric lights; Carey's roofing; cost \$21,000.

Md., Baltimore.—F. H. Wyatt awarded contract to Murray & Haynes, 1709 N. Ellamont St., Baltimore, to erect bungalow on Mount Holly Ave.; one and a half stories; nine rooms and bath; plans by M. H. Murray, 1709 N. Ellamont St., Baltimore.

Md., Baltimore.—Mrs. J. H. Telford awarded contract to Murray & Haynes, 1709 N. Ellamont St., Baltimore, to erect cottage on Bateman Ave.; shingle construction; 11 rooms and bath; plans by M. H. Murray, 1709 N. Ellamont St., Baltimore.

Md., Baltimore.—Andrew Reiter, Jr., Garrison and Penhurst Aves., awarded contract to Murray & Haynes, 1709 N. Ellamont St., Baltimore, to erect cottage at Garrison and Penhurst Aves.; weatherboard; two and a half stories; 11 rooms and bath; plans by William Raymond Russell, Professional Bldg., Baltimore. (Recently noted.)

Mo., Kansas City.—A. Rosenberger awarded contract to Kansas City Construction Co., Kansas City, to erect dwelling at 17 Janssen Pl.; two stories; stone and brick; cost \$29,000; plans by Shepard, Farrar & Wiser, Kansas City.

Mo., Kansas City.—George Aylsworth awarded contract to Butler-Weaver Realty Co., Kansas City, to erect dwelling at 836 Westover Rd.; two stories; brick and stucco; cost \$14,000; plans by Henry Holt, Kansas City.

N. C., Winston-Salem.—Charles Taylor awarded contract to Irvin Melver, Winston-Salem, to erect residence.

Tenn., Chattanooga.—R. W. Olmsted awarded contract to erect two residences; brick; eight rooms; ordinary construction; hot-air heat; electric lighting; shingle roof; cost \$5300; plans by D. T. Brandon.

Tenn., Knoxville.—N. A. Schubert awarded contract to erect dwelling; 40x40 feet; fireplaces; shingle roof; cost \$3000; plans by W. H. Gildard, Knoxville. (Recently noted.)

Tenn., Memphis.—H. W. Lucas awarded contract to J. W. Krone & Co., Memphis, to erect two-story six-room residence at 1970 Higbee St.; frame construction; cost \$1000.

Tenn., Memphis.—E. F. George awarded contract to J. W. Krone & Co., Memphis, to erect residence at 682 Mansfield St.; two stories; brick; eight rooms; cost \$5000.

Tenn., Memphis.—F. A. Duncan awarded contract to J. W. Krone & Co., Memphis, to erect one-story five-room frame dwelling at 447 Angelus St.; cost \$3000.

Tenn., Memphis.—T. F. Turley awarded contract to C. J. Richmond, Memphis, to erect two-story eight-room brick dwelling at 56 Evergreen St.; cost \$4500.

Tenn., Memphis.—J. Bernstein awarded contract to J. W. Krone & Co., Memphis, to erect two-story six-room dwelling on Jefferson Ave. and Willett St.; cost \$5000.

Tenn., Memphis.—R. B. Snowden awarded contract to Sam Walker, Memphis, to erect four four-room cottages at 934-939-945 and 949 Mansfield St.; total cost \$3200.

Tenn., Memphis.—A. F. Streull awarded contract to J. W. Ingelwright, Memphis, to erect residence; two stories; eight rooms; frame; cost \$3500.

Tenn., Memphis.—D. E. Wilson awarded contract to J. A. Smith, Memphis, to erect two-story eight-room brick dwelling at 1125 Peabody Ave.; cost \$7000.

Tenn., Memphis.—Mallory Bros. awarded contract to W. R. Gilbert, Memphis, to erect two-story nine-room brick dwelling at 343 Pickett St.; cost \$8000.

Tenn., Nashville.—C. K. Colley awarded contract to Henderson Baker, Nashville, to erect dwelling; two stories; hot-air heat; electric lighting; composition roof; cost \$6000. (Recently noted.)

Tex., Dallas.—Bricky & Bricky awarded contract to erect two six-room dwellings; cost \$3500 each; plans by owner. (Recently noted.)

Tex., El Paso.—Julia A. Doyle and S. E. Patton will erect two dwellings; 28x46 feet and 26x40 feet; redwood shingle roof; plans and construction by Mr. Patton.

Tex., Goliad.—W. F. Pettus awarded contract to W. S. Champion, Goliad, to erect residence.

Va., Norfolk.—Mrs. N. Frankfurt awarded contract to W. J. Atkinson & Bros., 355 Arcade Bldg., Norfolk, Va., to erect residence; 30x42 feet; ordinary construction; slate roof; cost \$4500; plans by A. Eberhard, National Bank of Commerce Bldg., Norfolk.

Tex., San Marcos.—J. A. Travis awarded contract to erect residence; fireproof; 30x146 feet; concrete block; cost \$5000.

Va., Portsmouth.—Harry Lee Lowenberg awarded contract to Baker & Brinkley, Norfolk, Va., to erect residence on Washington Park; cost \$60,000.

Va., Richmond.—W. E. Clay awarded contract to W. H. Crawford, Richmond, to erect detached brick dwelling on Floyd Ave.; cost \$5500.

GOVERNMENT AND STATE

Ga., Carrollton.—Postoffice.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., awarded contract at \$42,947 to James Devault, Canton, O., to erect postoffice building. (Previously noted.)

Mo., Marshall.—Postoffice.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., awarded contract at \$50,450 to V. E. Taylor, Huntington, W. Va., to erect postoffice. (Recently noted as lowest bidder.)

Tex., Austin.—Postoffice.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., will expend \$105,000 to erect postoffice; 104 feet 4 inches by 143 feet 4 inches; fireproof construction; low-pressure steam heat; composition roof; Dieter & Wenzel Construction Co., Joplin, Mo., recently noted as receiving subbids on this work, has contract. (See "Machinery Wanted.")

HOTELS

Tenn., Knoxville.—Hotel Imperial Co. awarded contract to S. M. Beaumont Company to improve Hotel Imperial, including changes in lobby and front, providing dining-room, etc.; cost \$5000.

MISCELLANEOUS

Ala., Selma.—Hall.—Dr. A. W. Jones awarded contract to remodel building at Water and Lauderdale Sts. for hall, offices and stores.

D. C., Washington.—Hospital.—Lucy Hayes National Training School awarded contract to Melton Construction Co., 11th and K Sts. N. W., Washington, to erect hospital; six stories; fireproof construction; steam heat; electric lighting; standard plunger elevators; slag and tile roof; cost \$125,000; plans by W. E. Palmer. (Melton Construction Co. previously noted as lowest bidder.)

Md., Baltimore.—Sheds.—F. E. Schneider

Paving Co., Monroe and Lorman Sts., has plans by and awarded contract to Lauer & Harper, Westport, Md., to erect steel shed on Laurens St. near Monroe St.; 42x90 feet; cost about \$3000.

N. C., Winston-Salem.—Greenhouses.—Reynolds Farms, R. E. Snowden, chief engineer and general manager, Route No. 2, awarded contract to Lord & Burnham Company, Irvington, N. Y., to erect proposed greenhouses; ground area 4500 square feet.

Tex., Galveston.—Sanitarium.—John Sealy Hospital Board awarded contract to Lisle-Dunning Construction Co., Houston, Tex., to erect hospital for treatment of tuberculosis of the bone; steel frame, reinforced with concrete; 75 feet 2 inches by 57 feet 5 inches; fireproof; cost \$15,000. (Recently noted.)

Tex., Houston.—Home.—Building Committee of Faith Home awarded contract to Frank Heidleberg, Houston, to erect home; three stories; 12x16 feet; fireproof; laundry; accommodations for 148; sleeping gallery, 125x12 feet; steam heat; electric lights; cost \$40,000; plans by Mauran & Russell, St. Louis, Mo. (Previously more fully detailed.)

RAILWAY STATIONS, SHEDS, ETC.

D. C., Washington.—Washington Railway & Electric Co., 14th and East Capitol Sts., awarded contract to Upton-Smoother Construction Co., 902 F St. N. W., Washington, to erect additional car storage sheds at 4½ and O Sts. S. W.

S. C., Warrenton.—Southern Railway Co., B. Herman, chief engineer, 1300 Pennsylvania Ave., Washington, D. C., awarded contract to I. C. Abbott, Brandy, Va., to erect combination depot; frame; tin; shingle roof and overhang on all sides; freightroom 20x40 feet; platform 35x50 feet.

Tex., Victoria.—St. Louis & San Francisco Railroad, M. C. Byers, chief engineer operations, Springfield, Mo., awarded contract to Anchor Lumber Co., Victoria, to erect 45,000 passenger and freight depots, etc. (Recently noted.)

Va., Cumberland.—Tidewater & Western Railroad, T. M. R. Talcott, vice-president and general manager, Richmond, Va., awarded contract to W. D. Steinbach & Sons, Lewistown, Pa., to erect passenger and freight depots.

Va., Salem.—Roanoke Railway & Electric Co. awarded contract to Rhodes & Wade, Roanoke, Va., to erect building to contain waiting-room, offices and freight station; two stories; brick; 20x90 feet; ordinary construction; steam heat; electric lighting; elevator; metal roof; cost \$6000; plans by Miller & Mahood, Roanoke, Va.

SCHOOLS

Miss., New Augusta.—City will expend \$7000 to erect school building; contract recently noted awarded to Burkes Construction Co., Hattiesburg, Miss.

Tex., Austin.—School Board awarded contract at \$12,393 to Fischer & Lambie to erect addition to and repair Woodbridge School; brick; steam heat; plans by C. H. Page & Bro., Austin. (Recently noted.)

Tex., Lytton Springs.—School Board awarded contract to Birkner & Adams, Lockhart, Tex., to erect school; brick; four classrooms, with stair halls, etc.; cost \$8000; plans by R. L. Pierce, San Antonio, Tex. (Previously noted.)

Tex., Richmond.—City awarded contract at \$22,500 to Belton & Stephenson, Floresville, Tex., to erect high school; semi-fireproof; metal Spanish tile roof; faced with Texas fire brick; auditorium to seat 750 pupils; plans by R. L. Pierce, San Antonio, Tex. (Recently noted.)

Va., Richmond.—School Board awarded contract at \$95,300 to R. H. Richardson & Son, Richmond, to erect Bellevue school, and at \$7386 to American Heating & Ventilating Co., Richmond, for heating and ventilating. (Recently noted.)

STORES

Ala., Birmingham.—James Downey awarded contract to P. E. Bostick, Birmingham, to erect commercial building at First Ave. and 23d St.; two stories and basement; 100x140 feet; cost \$50,000.

Ala., Selma.—Dr. A. W. Jones awarded contract to remodel building at Water and Lauderdale Sts. for stores, offices and hall.

Ark., Hope.—Plunkett-Larrell-McRae Company awarded contract to P. A. Harp, Hope, to erect one-story annex; 30x120 feet.

Ga., Atlanta.—Rosenfeld Company awarded contract to erect addition to business

building 24x100 feet; three stories and basement.

Ga., Atlanta.—Edgar Dunlap awarded contract to Donaldson & Pearson, 2 Wall St., Atlanta, to erect store building; 40x60 feet; ordinary construction; gravel roof; cost \$5000. (Recently noted under "Dwellings.")

Ga., Augusta.—Isaac Silver & Bros., Savannah, Ga., awarded contract to Brown & Son, Augusta, to erect 5 and 10-cent store; 32x275 feet; ordinary construction; brick; freight elevator; fireproof roof; cost \$15,000; plans by G. Lloyd Preacher, Augusta. (Recently noted.)

Md., Baltimore.—Gottschalk Company awarded contract to Fisher Bros. to erect two-story store and dwelling at 927 W. Saratoga St.; steam heat; cost \$3500; plans by John R. Fisher, 827 W. Cross St., Baltimore.

N. C., Cherryville.—Dr. W. H. Houser and M. L. Rudisill awarded contracts to erect business block on Main St.; pressed brick; plate-glass front; two stories.

N. C., Winston-Salem.—Rosenbacher Bros. awarded contract to Fogle Bros. Company, Winston-Salem, to erect addition to store on Trade St.; two stories.

S. C., Saluda.—W. C. Edwards awarded contract to Logan & Logan, Saluda, to erect store building recently noted; 25x112 feet; two stories; fireproof construction; electric lighting; hand-power elevator; tin roof; cost \$6000. (See "Machinery Wanted.")

Tenn., Memphis.—Mrs. Gaston awarded contract to J. H. Moselage, Memphis, to erect two-story brick store at 232 Mulberry St.; cost \$3000.

Tex., Hearn.—S. Lipschitz will expend \$4000 to erect store building; 40x115 feet; ordinary construction; stoves; electric lighting; steel roof; contract recently noted awarded to J. Robb & Son of Hearn.

Tex., Mercedes.—E. E. Evans awarded contract to Mr. Fleming to erect business building; one story; brick; 50x150 feet.

Tex., Navasota.—F. W. Brosig will expend \$20,000 to erect hardware store; 52x145 feet; fireproof construction; electric lighting; electric elevator (not in contract); gravel roof; plans by Green & Finger, Houston, Tex.; contract recently noted awarded to Richardson & Taylor, 1101 Yale St., Houston, Tex.

Tex., Normangee.—Normangee Hardware & Furniture Co. awarded contract to Charlie Fugun, Shiro, Tex., to erect business building; 50x100 feet.

Tex., Plantersville.—Ancient Free and Accepted Masons awarded contract to Elias Winkler, Plantersville, to erect store and lodge building. (See "Association and Fraternal.")

RAILROAD CONSTRUCTION

RAILWAYS

Ala., Attalla.—The Alabama Great Southern Railroad, it is reported, will rebuild its yards in Attalla and build a new side-track about a mile and a quarter long, besides several other new tracks. C. Dougherty is chief engineer at Cincinnati, O.

Ala., Birmingham.—Col. W. W. Shortridge of Boaz, Ala., vice-president of the Birmingham & Chattanooga Electric Railway, is quoted saying that arrangements have been made in New York to float \$5,500,000 of bonds for construction, and the survey has been completed from Boaz, Ala., to Chattanooga, and that survey will begin immediately from Boaz to Birmingham, to be completed by October 1, when it is expected construction will begin. J. M. Spradlin of Boaz is president and treasurer.

Ala., Manistee.—J. A. Kauffman, vice-president and general manager, announces that the Manistee & Repton Railroad Co. has completed four and one-half miles of line into Monroeville, Ala., and is ready for freight service there.

Ala., Mobile.—Henry McLaughlin of Pensacola, Fla., president of the Pensacola, Mobile & New Orleans Railway, is quoted saying that piling is now being driven for the trestle across Mobile Bay, 4½ miles, of which about three miles will be filled in.

Ark., Russellville.—Engineers are reported surveying for the Russellville, Dover & Northern Railroad, 15 miles long. W. H. Garanto of Little Rock, Ark., and others are interested. (See Manufacturers Record February 15, 1912, and November 23, 1911.)

Ala., Toltette.—An official is reported saying that the Toltette & Western Railroad has 12 miles of track laid from Toltette across St. Stephens Rd. via Hawthorn to

Tex., Temple.—C. W. Wilson awarded contract to J. H. Davis, Temple, to erect two-story-and-basement business block on Main St. and Central Ave.; cost \$18,000. (Recently noted.)

Tex., Wichita Falls.—C. C. Knight and associates awarded contract to erect business building at Indiana Ave. and 9th St.; three stories; cost \$25,000.

THEATERS

Fla., Plant City.—S. E. Mays awarded contract to R. E. Fletcher, Plant City, to erect opera-house; one story; 18-foot ceiling; seating capacity several hundred.

WAREHOUSES

Ky., Cynthiana.—Burley Tobacco Society, Lexington, Ky., awarded contract to O. P. Raymond to erect warehouse and to S. J. Craig for concrete work; 140x260 feet; concrete basement; cost \$30,000.

Md., Cumberland.—Western Maryland Railway Co., H. R. Pratt, chief engineer, Hillen Station, Baltimore, Md., awarded contract to W. D. Etelbach & Sons, Lewistown, Pa., to erect proposed freight warehouse and office building and platforms; one building, 24x290 feet; one, 34x225 feet, and two platforms, 6x290 feet; ordinary construction; electric lighting; slag roof; cost \$27,000; plans by C. M. Anderson, 324 N. Charles St., Baltimore, Md. (See "Machinery Wanted.")

S. C., Rock Hill.—Victoria Cotton Mills will expend \$5300 to erect two warehouses; 50x96 feet and 50x100 feet; ordinary or mill construction; Carey's paper-asbestos roofing; plans by Hook & Rodgers, Charlotte, N. C.; contract recently noted awarded to C. A. Dobbins, Rock Hill.

Tenn., Memphis.—Binswanger & Co. awarded contract to Kaucher & Hodges, Memphis, to erect three-story brick warehouse at 641 Union Ave.; cost \$14,500.

Tenn., Memphis.—W. W. & W. B. Watkins awarded contract to James Alexander Construction Co., Memphis Trust Bldg., Memphis, to erect proposed warehouse; 50x170 feet; reinforced concrete; cost \$40,000; plans by Alsop & Smith, Randolph Bldg., Memphis.

Tex., Cuero.—Guadalupe Valley Cotton Mills awarded contract to Charles Feuss to erect warehouse; one story; 100x100 feet. (See "Textile Mills.")

Tex., Palestine.—Palestine Grain Co. awarded contract to John Gaught, Palestine, to erect building at Reagan and Lina Sts.

Va., Richmond.—Grasber Vehicle Co. awarded contract to Gebbard Bucher, Richmond, to erect warehouse; two stories; brick; cost \$3000.

Fairview, Ala. J. W. Hill of Toltette, Ala., has grading contract. Revision of line and strengthening of bridges is to be done. An extension is contemplated to connect with the Tombigbee Valley Railroad at or near Seaboard. S. R. Cochran, 377 Main St., Greenville, Pa., is president.

Ark., Batesville.—The Batesville & North-eastern Railway Co., says an official, is to build from Batesville northeast 50 or 60 miles to connect with the Frisco system, including a small bridge at Strawberry River, a larger bridge over Black River and several small bridges over creeks. The route lies through mostly rolling country for the first 30 miles, and the eastern end is through bottom lands. T. J. Walbert, manager of the Mt. Olive State Co., is president, R. W. Earnhart is vice-president, C. W. Maxfield and Samuel Deener. Among those interested are John Wolf, F. P. Albright and others.

Ark., Dermott.—An official letter denies the report that the Missouri Pacific contemplates double-tracking from Dermott to McGehee.

Ark., Fayetteville.—The Kansas City & Memphis Railway Co., says a report, has completed its branch from Cave Springs to Fayetteville, and has put it in service. Surveys have recently been made from Cave Springs to Joplin, Mo. M. Hays is chief engineer at Rogers, Ark.

Ark., Mt. Ida.—Official: The Mt. Ida, Ouachita Valley & Hot Springs Railroad Co. will build 10 miles of line through rough and rolling country from Womble to Mt. Ida. Col. C. C. Godman, Fort Smith, Ark., is general manager and contractor. The directors are G. Cox, president; G. H. Speer, Jr., vice-president; Earl Witt, secretary-treasurer; T. M. Scott, L. S. Kennedy, L. L. Beavers, C. J. Watkins, J. R. Howell, S. S. Smith, W. D.

Freeman, O. M. Radford, D. Peters and W. M. Alley. Another report says that F. O. Cook, engineer, is making the survey, accompanied by Colonel Godman, and that contracts have been let to clear the right of way and to furnish ties.

Fla., Dupont.—The Atlantic, Dupont & Western Railroad has built 18 miles of narrow-gauge line, which will be widened to standard by the company's forces, and six miles of an extension has been constructed. The line extends from Dupont, Fla., to connection with the Atlantic Coast Line and the St. Johns River. Officers are: President, H. E. Black; vice-president, V. W. B. Hedges; treasurer, F. W. Wollerton; secretary, H. R. Vandusen, all of Scranton, Pa.; general manager, L. G. Willaume; chief engineer, A. B. Dunning, both of Dupont, Fla.

Fla., Jacksonville.—Reported that T. R. Osmond is investigating with regard to plans for the construction of an electric railway from Jacksonville to St. Augustine, Fla., 37 miles.

Fla., Melbourne.—Union Cypress Co., says a letter, has nearly completed a railroad from Melbourne to the east line of Osceola county, about 18 miles, to develop timber lands.

Fla., Mulberry.—The Seaboard Air Line is reported to have completed extension from Mulberry to the Royster Mine, seven miles.

Fla., Pensacola.—The Gulf, Florida & Alabama Railway is reported asking bids for construction of about 20 miles north of Local, Ala. G. A. Berry is vice-president, general manager and chief engineer at Pensacola, Fla.

Fla., Tarpon Springs.—The Tampa & Gulf Coast Railway, says a report, has put in service its new branch from Tarpon Springs to Port Richey, eight miles.

Fla., St. Petersburg.—B. M. Latham, chief engineer and superintendent, says that the St. Petersburg & Gulf Railway Co. is building eight miles of line from St. Petersburg to Boca Ciega Bay through level country. A. P. Avery of St. Petersburg is general manager.

Ga., Augusta.—A. J. Twigg & Sons, contractors for the construction of a railroad from a connection with the Charleston & Western Carolina Railway to the site of the proposed electric plant at the mouth of Stephens Creek are reported pushing work, and already more than a mile of track has been laid.

Ga., Hinesville.—The Flemington, Hinesville & Western Railroad is reported to have given contract to Huggins, Gaudy & Easterling for the construction of its line between Hinesville and McIntosh, 10 miles, via Flemington. An extension to Glenville, 25 miles, is expected. J. B. Way of Hinesville and others are interested.

Ga., Savannah.—The Great Eastern Lumber Co. will incorporate the Savannah Railroad & Terminal Co. for its seven-mile railroad now under construction, to connect its village of Port Wentworth with other lines. G. K. Wentworth is president and C. E. Gill general manager.

La., New Orleans.—The Public Belt Railroad has been granted authority to build several switch tracks. W. J. Hardee is chief engineer at the City Hall, New Orleans.

Md., Brunswick.—Coblentz & Klipp of Frederick, Md., are reported to have begun grading at Brunswick on the seven-mile extension of the Frederick & Middletown Railroad from Jefferson to Brunswick.

Miss., Pascagoula.—At a recent meeting W. G. Seaver of Chester, Pa., representing the Mississippi Northwestern Railroad, Pine Belt Route, a proposed line from Omaha, Neb., to the Gulf of Mexico, with Pascagoula as its tidewater terminal, made a proposition for its construction, and a resolution presented by F. H. Lewis was adopted to grant the railroad a river-front terminal 350x1500 feet and right of way through Jackson county upon condition that satisfactory guarantee be given that the railroad will be constructed from Pascagoula to the northern or western line of Jackson county. A committee, consisting of Mr. Lewis and others, was appointed. Rev. John B. Chipman presided, and Charles E. Childsey was secretary of the meeting.

Miss., Jackson.—The Jackson & Eastern Railway has applied for a charter for a line from Jackson northeast to Union, Miss., about 65 miles. The incorporators are S. A. Neville, E. B. McHaven and J. A. Perdue of Meridian, Miss.

Miss., Meridian.—W. P. Dickinson of Chicago, president of the Memphis & Pensacola Railroad Co. is quoted saying that construction will begin out of Pensacola before the

time limit expires on September 25. There will be 10 miles constructed there, and then work may begin from Meridian toward Pensacola.

Miss., Wiggins.—A letter says that the press report concerning the building of a railroad by the Fruit Line Co. is erroneous. There is no such company. It is the Pinkline Lumber Co. which is building an extension west of the Gulf & Ship Island Railroad, as previously reported. It will be used as a logging road.

N. C., Kinston.—The Kinston Terminal Co. has given notice of franchise application for its proposed line from Kinston to Richlands, about 25 miles. Lovit Hines is president, J. H. Canady vice-president and E. W. Chadwick secretary.

Okla., Ardmore.—Promoters of the Ardmore & Western Railroad are quoted saying that engineers will take field immediately for survey and construction will begin within six weeks.

Okla., Ponca City.—C. T. Atkinson, A. H. Denton and E. Kirkpatrick of Arkansas City, Kans., are reported to have financed a proposed interurban railway about 50 miles long from there into Oklahoma and connecting Chillico, Kildare, Newkirk, Blackwell, Ponca City and Tonkawa, Okla. Survey is to begin immediately. Others mentioned as interested are C. T. Brown and Lefe Brown.

Okla., Wapanucka.—The Missouri, Oklahoma & Gulf Railroad, says a report, will build an extension of 15 miles from Wapanucka to Bromide, Okla. J. J. Harrison is chief engineer at Muskogee, Okla.

S. C., Columbia.—R. H. Welch, attorney for the incorporators of the Carolina & Georgia Railway Co., is quoted saying that it cannot now be stated definitely whether the proposed line will be operated by steam or electricity. The route has been decided upon via Warrenville. The incorporators are James U. Jackson, A. A. Walden, L. J. Williams, J. L. Barksdale and Walter Jackson, all of North Augusta, S. C., and Frank E. Courtney of Augusta, Ga.

Tenn., Jamestown.—The Tennessee Northeastern Railroad Co., which proposes to build a line about 80 miles long from or near Winfield, Tenn., on the Queen & Crescent Route, southwest through Scott, Fentress, Cumberland and White counties to or near Ravenscroft, Tenn., on the Nashville, Chattanooga & St. Louis Railway, is reported about to sell in France \$750,000 of first mortgage 5 per cent. bonds. Ward R. Case of Jamestown, Tenn., is secretary. D. L. Fickes is president and F. C. Chesbrough is treasurer, both at Scranton, Pa.

Tex., Amarillo.—The Chamber of Commerce has agreed to give \$50,000 cash, right of way through Potter county and terminal site for the Texas, Kansas & Oklahoma Railway.

Tex., Cleburne.—The Fort Worth & Cleburne Interurban Railway is reported complete and open for traffic.

Tex., Dallas.—The State Railroad Commission has approved the report of its engineer, R. D. Parker, recommending a number of improvements to the Texas & Pacific Railway, especially to track. C. H. Chamberlain is chief engineer of the railroad company at Dallas, Tex.

Tex., Farwell.—The Rock Island, Farwell & Gulf Railway Co., promoted by J. D. Hamlin of Farwell and others, is reported to have closed arrangements with the town of Big Spring for a bonus of \$75,000. The line will extend from Farwell via Seminole to Big Spring, about 180 miles.

Tex., Houston.—Preliminary surveys, maps and profiles, as well as working estimates, are reported prepared for the proposed 65-mile interurban railway to connect Houston, La Porte, Webster and other points. This is the proposition promoted by Dr. F. S. George of Dayton, O. Gasoline motor cars may be used.

Tex., Houston.—The International Great Northern Railroad, it is reported, will build an extension from Houston to Beaumont, Tex., about 80 miles, and thence into Louisiana for a through route to New Orleans in connection with the Texas Pacific. O. H. Crittenden is chief engineer at Houston, Tex.

Tex., Midland.—R. E. Davis, chief engineer of the Texas, Gulf & Northern Railroad, says that 60 miles have been located and survey is in progress for the rest of its proposed line from Tucuman, N. M., via Midland, to San Antonio, Tex., 560 miles. The maximum grade is six-tenths of 1 per cent, and the maximum curvature two degrees. Bids will be opened about October 1 for the construction of 60 miles north of Midland. Ninety per cent. of the country traversed is level.

Tex., Orange.—The Orange Northeastern Railway Co., which proposes to build a line which will be about 126 miles long in Texas and Louisiana, has been chartered. The proposed construction is from White City to Burkeville; thence to the Sabine River, 47½ miles; also from Orange, Tex., northeast toward Niblett's Bluff, La., about 1½ miles. Altogether about 85 miles of new work is required. It is stated that the line in Louisiana is already built for a distance of 34 miles; charter will be obtained there; capital stock \$100,000; incorporators are Ed. Kennedy, Carey Shaw, J. C. Simmons of Houston, Tex.; Geo. E. Holland, F. H. Farwell, Jas. B. Sargent, S. M. Sells of Orange, Tex. (the first year directorate); also H. W. Pruter, S. C. Trimble, S. M. White and Joe Lucas, all of Orange.

Va., Roanoke.—The Vaughn Construction Co. of Roanoke is reported given contracts by the Seaboard Air Line at Rockingham and Pee Dee, N. C., for one mile of double track at each place; also passing tracks at Matthews, Maxton and Clarkton, N. C., and Hermitage, Va., each track being a mile long, besides a connecting track at Roanoke Junction, N. C.

W. Va., Keyser.—A letter denies the recent press report that Pittsburgh capitalists propose the construction of an electric railway from Keyser to Petersburg, W. Va.

W. Va., Morgantown.—The Morgantown & Dunkard Valley Railway Co. is reported to

have let contracts for construction of 10 miles of extension from Cassville to Pentress. G. B. Hartley is chief engineer.

STREET RAILWAYS

Miss., Hattiesburg.—The Hattiesburg Traction Co. is reported to have received rails for its extension to the Mississippi Woman's College, and will complete the work next month.

Miss., Hattiesburg.—Hattiesburg Traction Co. has applied for an amendment to its charter to permit increase of capital stock to a million dollars, the additional stock to be used for extensions and improvements.

Miss., Laurel.—The Laurel Light & Railway Co. is reported to have completed four miles of its street railway.

Tenn., Chattanooga.—The Chattanooga Railway & Light Co., says a report, contemplates the construction of a line to the summit of Lookout Mountain. The route is yet to be announced. W. E. Bollean is general manager.

Va., Charlottesville.—The Charlottesville & Albemarle Railway Co. has been authorized to extend its Main St. electric line through College Ave. and out Ivy Rd. to the head of Rugby Rd. Construction will begin immediately, to be completed by October 1.

W. Va., Wheeling.—The City & Elm Grove Railway is reported contemplating construction of an extension to Park View.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

Air Compressor.—See "Quarrying Equipment."

Art Glass Windows.—First Baptist Church, Rev. J. E. Martin, pastor, Jellico, Tenn., wants prices on art glass windows.

Bank Fixtures.—J. Bowers, St. Jo, Tex., wants prices on bank fixtures.

Barrels.—Fant Bros., Anderson, S. C., wants addresses of manufacturers relative to purchase of 40 or 50 open top wooden barrels, with solid wooden hoops.

Boiler.—See "Quarrying Equipment."

Boiler.—Wood Grocery Co., Selma, N. C., wants 100-horse-power second-hand return-tubular boiler.

Boiler.—Battleboro Oil Co., Battleboro, N. C., wants 150-horse-power boiler with 150 pounds pressure.

Boilers.—Quenelda Graphite Co., Quenelda, Ala., wants prices on three 125-horse-power boilers.

Bridge.—State Highway Commission, P. St. John Wilson, commissioner, Richmond, Va., opens bids September 6 for constructing bridge across Elk Creek, in Grayson county; plans and specifications on file in clerk's office at Independence, Va., and of Mr. Wilson.

Bridge Construction.—Sealed bids received by Board of County Commissioners of Wagoner county at office of J. E. McElroy, county clerk, in Wagoner, Okla., until 5 P. M. October 5, to be opened October 7, for furnishing of material and labor for erection and completion of four bridges located as follows: One on Arkansas River, two on Verdigris River and one on Grand River; plans and specifications on file in offices of county clerk and of county engineer after September 15; certified check for 10 per cent. amount of bid; all bids must state time of completion of work; K. K. Kellen, county engineer.

Bridge Construction.—Bids received August 30 by Police Jury, East Carroll parish, Lake Providence, La., for constructing nine iron bridges according to plans and specifications on file with C. S. Wyle, secretary; certified check for \$500.

Bridge Construction.—Bids received until noon September 6 at office of clerk, Independence, Va., for constructing 87-foot span across Elk Creek, near Fries, Va.; plans and specifications on file at office of clerk and at office of P. St. J. Wilson, State Highway Commissioner, Richmond, Va.; certified check for \$250.

Bridges.—A. J. Driver, Jr., Probate Judge, Lafayette, Ala., wants prices on steel bridges.

Bridges.—Bids received by Board of Su-

perisors of Bath county, Virginia, at Warm Springs, Va., until 11 A. M. September 20 for building two steel bridges; 60-foot span at Mountain Grove, Va., and 120-foot span at Williamsville, Va.; contract for both substructure and superstructure; certified check \$250; F. L. La Rue, clerk.

Builders' Hardware.—Atlantic, Dupont & Western Railroad, L. G. Willaume, general manager, Dupont, Fla., wants builders' hardware for 200 houses for farmers.

Building Materials.—Dieter & Wenzel Construction Co., Joplin, Mo., wants prices on ornamental iron, vault doors, Kasota marble, mill work, window screens, plumbing, electric wiring and conduit, iron window frames and sash, marble and terrazzo, composition roofing, finish hardware, etc., for United States postoffice at Austin, Tex.

Building Materials.—John R. Query, Concord, N. C., wants prices on building materials, including shingles, flooring, siding, wood fiber plaster, etc.

Building Materials.—Laurel Sanitarium, Laurel, Md., wants prices on 40,000 press and 175,000 salmon brick, fireproofing material for walls and tile for floors and roof.

Building Materials.—L. W. Dumas, Jr., Construction Co., Columbia, Mo., wants prices on marble and tile, steel and ornamental iron, cork tiling, waterproofing swimming pool, plastering, ornamental and mill work and metal partitions for \$60,000 Young Men's Christian Association building at Springfield, Mo.

Building Materials.—L. Percival Hutton, McNeil-Davis Bldg., Orlando, Fla., wants catalogues, etc., of materials of interest to architects.

Carpets, etc.—First Baptist Church, Rev. J. E. Martin, pastor, Jellico, Tenn., wants prices on carpets and cork linoleum for \$25,000 church.

Cars.—W. M. Blount, president Birmingham & Southeastern Railway Co., Union Springs, Ala., wants Rodger ballast cars; immediate shipment.

Canal Construction.—Portsmouth City Water Commission, W. G. Parker, president, Portsmouth, Va., opens bids September 24 for dredging canal 11 miles long, 8 feet deep, 24 feet wide at top and 16 feet wide at bottom, through Dismal Swamp from Norfolk & Western Railroad to Lake Drummond; about 35,000 cubic yards materials to be dredged; plans, specifications, etc., on file; blank forms obtainable at office of commission.

Cement.—A. J. Driver, Jr., Probate Judge, Lafayette, Ala., wants prices on cement.

Concrete Wall.—Department of Public Improvements, Baltimore, Md. Proposals for grading and construction of concrete retaining wall along south side of proposed commercial highway between Battery Ave. and Covington St., etc., received until 11 A. M. September 11; specifications and plans obtainable at Harbor Board's office on payment of \$10, which will be refunded upon return in good order; O. F. Lackey, Harbor Engineer.

Crane.—Sealed proposals, endorsed "Proposals for 15-ton Traveling Crane," received at Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 A. M. September 21, and then publicly opened, for 15-ton manually-operated single-trolley traveling crane, 48 feet 11½ inches span, for central power plant, United States naval torpedo station, Newport, R. I.; estimated cost \$1800; specification No. 1890; plans and specifications obtained on application to bureau or to commandant, naval station, Narragansett Bay, Newport. William M. Smith, Acting Chief of Bureau.

Cupola.—Raleigh Iron Works Co., Raleigh, N. C., wants prices on 48-inch gray iron cupola; would consider second-hand machine.

Derrick Outfit.—Southern Gravel Co., Eastman, Ga., wants to purchase second-hand stiff leg derrick outfit complete, consisting of 10 to 15 cubic feet capacity orange-peel bucket, derrick and cable; also hoisting engine and boiler to operate derrick and bucket.

Ditch Excavation.—Brazoria County Drainage District No. 3, T. W. Carlton, secretary, Alvin, Tex., invites bids until September 17 for 111,656.39 cubic yards dry excavation (open ditches); 23,000 cubic yards wet excavation (improvement of sloughs); 8966 feet dry excavation; 5900 feet storm sewers; maps, profiles, specifications, etc., on file with secretary, from whom copies can be obtained; A. R. Leckie, drainage engineer.

Ditch Excavation.—Board of Drainage Commissioners of Big Cold Water Drainage District receives bids at clerk's office, Concord, N. C., until noon September 17 for ditching Big Cold Water Creek, running one mile east of Concord; plans and specifications on file with Clerk Superior Court for Cabarrus County; amount of excavation is 237,000 cubic yards; work to be completed within eight months; John A. Scott, secretary.

Doors and Windows.—Atlantic, Dupont & Western Railroad, L. G. Williams, general manager, Dupont, Fla., wants prices on doors and windows for 200 houses for farmers.

Dredging.—United States Engineer Office, Charleston, S. C. Proposals for dredging in Ashley River and Shipyard Creek, Charleston Harbor, S. C., received until noon September 25, and then publicly opened. Information on application. G. P. Howell, Major, Engineers.

Dredging Machinery.—New Orleans Netherlands Company, 810 Maison Blanche (not 1325 First National Bank Building, as recently stated), New Orleans, La., wants catalogues of dredges, dredge machinery supplies, centrifugal pumps, gas engines and other material needed for pumping stations for land reclamation.

Dredging Machinery.—D. Liehtscheff, Faroway, Tranway 6 Stat. Odessa, Russia, wants addresses of manufacturers of machinery for digging trenches and canals and similar work.

Dredging Machinery.—L. F. Holbs, Box 483, Norfolk, Va., wants prices on small dipper dredge (second-hand) for Virginia delivery.

Electrical Machinery.—See "Pumping Machinery."

Electrical Machinery.—J. W. Kohn, care National Machinery & Wrecking Co., 1916 Scranton Rd., Cleveland, O., wants three 25 or 35-horse-power 3-phase 40-cycle 229-volt 1200 R. P. M. induction alternating current motors.

Electrical Machinery.—City of Lake Providence, La., receives bids until noon September 24 for installing additional machinery for electric-light plant, including engine and dynamo; plans and specification ready about September 3; William T. Bell, Mayor.

Electrical Machinery.—F. & O. Cedar Works, Ltd., 127 Duane St., New York, wants new or second-hand 2½ kilowatt steam engine generator, switchboard, etc., for electric-light plant.

Electric Plant, etc.—Bids received September 24 for construction of central heating and lighting plant for Tuskegee Normal and Industrial Institute, Tuskegee, Ala.; buildings to be erected are power-house and coal bunker, 192x112 feet, of brick and concrete construction; machinery to be installed;

water-tube boilers, engines, generators, steam transmission system, electrical transmission system, motors and transformers; plans and specifications at office of A. R. Taylor, director of industries, Tuskegee; Walter G. Franz, consulting engineer, 1793 Union Trust Bldg., Cincinnati, O.; Builders and Traders' Exchange, Birmingham, Ala., and at Contractors and Dealers' Exchange, 826 Perdido St., New Orleans, La.; plans and specifications for bidders obtainable from engineer upon deposit of certified check for \$25; Walter G. Franz, consulting engineer. (Recently noted as to receive new bids.)

Enamel Letters.—Puritan Manufacturing Co., Boulevard and Second Ave., Detroit, Mich., wants addresses of manufacturers of enamel window letters.

Feed Mill.—W. H. Marshall, Elkton, Va., wants feed mill for grinding corn and cob.

Fire-alarm System.—Pulaski Hose Co., Pulaski, Va., wants addresses of manufacturers of electrical fire-alarm systems.

Fire-alarm System.—Board of Fire Masters, Atlanta, Ga., receives bids until October 2 for automatic, semi-automatic and manual fire-alarm telegraph central office equipment, including cables and serial line work; plans and specifications on file with chief of fire department.

Gasoline Engine.—Artesian Farms Co., E. A. Lilly, president, Pearall, Tex., wants prices on 25-horse-power gasoline engine.

Gas and Oil Engines.—Kanawha Engineering Co., Charleston, W. Va., wants to

deck hose, 500 feet flexible rubber hose, 11,500 feet air hose, 180 feet hose suction and fittings; schedule 4799, 1200 feet rubber hose and 400 feet steam hose; delivery Navy-yard, Norfolk, Va. Applications should designate schedules desired by number. Blank proposals furnished upon application to bureau. T. J. Cowie, Paymaster-General, U. S. N.

Ice Machinery.—Marion Coca-Cola Bottling Co., Marion, S. C., wants addresses of manufacturers of ice machinery.

Laundry Machinery.—Sutton Ice Co., Sutton, W. Va., wants prices on laundry machinery; population 5000.

Levee Construction.—Board of Commissioners, Pontchartrain Levee District, Hunter C. Leake, president, receives bids until noon August 31 at office of Board of State engineers, 213 New Orleans Court Bldg., New Orleans, La., for constructing following levee work on Mississippi River, left bank: Baton Rouge Protection levee to Arlington, East Baton Rouge parish, contents 11,000 cubic yards; deposit \$110; Bonnet Carre, St. John parish, contents 200,000 cubic yards; deposit \$575; Deckbar levee, north, Jefferson parish, contents 100,000 cubic yards; deposit \$325.

Levee Construction.—Board of Commissioners, Red River, Atchafalaya and Bayou Boeuf Levee District, E. G. Richard, president, Alexandria, La., receives bids until 5 P. M. September 4 for following levee work on west bank of Atchafalaya River: Elba to Melville levee, raising and enlarging and new levee; section 1, station 3578 to station 3700 plus 50, 100,000 cubic yards, deposit

ber 24 for furnishing at Navy-yard Norfolk, Va., band resaw machine and counter sinking and drilling machine, schedule 4803. Application for proposals should designate schedule desired by number. Blank proposals furnished upon application to bureau. T. J. Cowie, Paymaster-General, U. S. N.

Metal-working Machinery.—Frederick H. Lewis, 732 Brown-Marx Bldg., Birmingham, Ala., wants information and catalogues on light metal-working and tin-can machinery.

Naval Supplies.—Proposals received at Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 A. M. September 17, and opened immediately thereafter, to furnish at Navy-yard, Washington, D. C., etc., a quantity of steel tanks, ether still, bands for projectiles. Applications for proposals should refer to schedule 4788; schedule 4787, dump wagons; schedule 4791, paints; schedule 4792, lumber; schedule 4793, sponges; schedule 4794, tallow; schedule 4795, phosphor-bronze wire rope. Applications for proposals should designate schedules desired by number. Blank proposals furnished upon application to navy pay office, Norfolk, Va., or to bureau. T. J. Cowie, Paymaster-General, U. S. N.

Oil-mill Machinery.—Battleboro Oil Co., Battleboro, N. C., wants oil-mill machinery.

Oil-mill Machinery.—Wake Cotton Oil Manufacturing Co., J. M. Templeton, Jr., president, Cary, N. C., wants addresses of manufacturers of oil-mill machinery.

Paving.—Committee, D. E. Weatherly, chairman, is asking bids on construction of about 5000 square feet cement sidewalk on Belle Ave., west of Garrison Ave., North Forest Park, Baltimore, Md.; bids close September 3; specifications, etc., obtainable from D. Lowenstein, Jr., secretary of committee, 4109 Belle Ave., North Forest Park.

Paving.—Town county, Eunice, La., will invite bids for about five miles cement sidewalks. Address Town Clerk.

Paving.—City Commissioners, Knoxville, Tenn., receive bids until September 5 for about 14,000 square yards paving, 8000 cubic yards excavation, 900 linear feet curb, 3000 linear feet storm sewers, etc.; districts 83 and 97; specifications and proposal sheets obtainable from J. E. Thompson, City Engineer.

Paving, etc.—City of Birmingham, Ala., will contract for certain grading, macadamizing, curb and gutter, and sidewalk paving; also for certain storm sewers; bids opened August 27; specifications obtainable and plans examined at office of City Engineer, Walter G. Kirkpatrick.

Paving.—City of Cumberland, Md., will grade and pave South Lee St. between Paca and Green Sts.; bids opened August 26; plans and specifications on file with City Engineer, J. P. Gaffney; Joseph Hirsch, Commissioner of Streets and Public Property.

Paving.—City of Carterville, Mo., receives bids until September 5 for constructing 9000 linear feet combined concrete curb and gutter, 2350 linear feet concrete sidewalks and 5600 linear feet eight-inch sewers; plans and specifications on file at office of City Clerk; for information address F. B. Newton, City Engineer.

Paving.—City of Shreveport, La., will contract for 30,000 square yards repair and resurfacing coating various streets; bids opened August 27; L. H. Baker, secretary-treasurer.

Paving.—City of Taylor, Tex., receives bids until September 2 for paving portions of 1st, 2d, 3d and Main Sts.; 18,000 square yards; separate bids on each street; \$650 check on each; vitrified brick, bitulithic, crossotred pine blocks, as outlined in specifications obtainable upon application to supervising engineer, C. E. Leonard, or to Mayor's office.

Paving.—Department of Public Improvements, Sub-department of City Engineer, Baltimore, Md. Proposals for repairs for whole city on streets paved with cobblestones by resurfacing with bituminous concrete, during 1912 and 1913, received until 11 A. M. September 4; certified check, \$500; specifications and blank proposal sheets obtainable upon application; Geo. M. Boteler, acting City Engineer.

Paving.—Sealed proposals received in office of City Clerk, Austin, Tex., until 10 A. M. September 26 for laying approximately 43,000 square yards wood block, bitulithic or bituminous concrete pavement; certified checks for different portions of the work, aggregating \$1500 for entire work, required with bids; right reserved to reject any or all bids, and to divide work between different kinds of pavement; smallest amount awarded to any one class 10,000 square yards; plans and specifications in office of G. S. Iredell.

FOR the benefit of business concerns, engineers, contractors, machinery manufacturers, dealers and others who find it profitable to follow up daily the industrial, commercial, railroad and financial development of the South and Southwest as published in this Construction Department,

We issue every Business Day in the Year THE DAILY BULLETIN

The construction news as published in the Daily Bulletin is invaluable to all business people who want to keep in daily touch with the organization of business enterprises of all kinds throughout the whole South. Unlimited possibilities for the creation of business, for securing contract work, for the sale of machinery and supplies of all kinds, for bond buyers and others, are to be found through a close following up of the news in the Daily Bulletin.

The Daily Bulletin is an exceptionally desirable advertising medium.

The subscription price is \$25.00 a year. Are you a subscriber to it, or an advertiser in it? If not, you are missing an opportunity for profitable business.

correspond with manufacturers of gas, gasoline and fuel-oil engines; crosshead type preferred.

Gasoline Launch.—United States Engineer Office, Wilmington, N. C. Proposals for furnishing and delivering one cabin gasoline launch received until 12 M. September 16, and then publicly opened. Information on application. H. W. Stickle, Major, Engineers.

Ginning Machinery.—Wake Cotton Oil Manufacturing Co., J. M. Templeton, Jr., president, Cary, N. C., wants addresses of manufacturers of ginning machinery.

Heating Plant.—Baptist church, O. O. Worley, chairman of committee, Camilla, Ga., wants to correspond with parties relative to installation of heating plant.

Heating Plant.—Hotel Woodmen Co., O. P. McPherson, secretary, Gloster, Miss., wants prices on heating plant for 20-room hotel.

Heating and Ventilating.—Dieter & Wenzel Construction Co., Joplin, Mo., wants prices on heating and ventilating plant, including air remover, air washer, automatic temperature control, etc., for United States postoffice at Austin, Tex.

Hoisting Machinery.—See "Derrick Outfit."

Hose.—Proposals received at Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until September 10, and then opened, for furnishing quantity of naval supplies as follows: Schedule 4798, 4000 feet upper deck fire hose, 2500 feet wash

\$325; section 2, station 3700 plus 50 to station 3738 plus 87, 75,000 cubic yards, deposit \$370; section 3, station 3738 plus 7 to station 3801 plus 30, 85,000 cubic yards, deposit \$285; section 4, station 3801 plus 20 to station 3865, 80,000 cubic yards, deposit \$285.

Lighting Fixtures.—First Baptist Church, Rev. J. E. Martin, pastor, Jellico, Tenn., wants prices on lighting fixtures for \$25,000 church building.

Lighting Plant.—Hotel Woodmen Co., O. P. McPherson, secretary, Gloster, Miss., wants prices on lighting plant for 20-room hotel.

Lumber.—Proposals received at Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until September 24 for furnishing at Navy-yard, Washington, D. C., quantity of lumber as follows: Schedule 4810, 15,000 feet Virginia pine, 45,000 feet white pine and 39,000 feet No. 1 poplar; schedule 4807, 30,000 feet yellow pine; delivery Norfolk, Va. Application for proposals should designate schedule desired by number. Blank proposals furnished upon application to bureau. T. J. Cowie, Paymaster-General, U. S. N.

Machine-shop Equipment.—Corinth Auto Co., Corinth, Miss., wants prices on lathe, drill and milling machine.

Machine Tools.—Quenelda Graphite Co., Quenelda, Ala., wants prices on drill press and lathes.

Machine Tools.—Proposals received at Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until September

City Engineer; deposit of \$10 required for plans and specifications; P. W. Powell, Superintendent of Streets and Public Improvements.

Paving.—City of Laurel, Miss., invites bids until September 3 to pave on three streets and two avenues; five separate contracts; plans and specifications on view at office of City Clerk; P. C. Cook, Street Commissioner.

Paving.—Board of Public Works, Louisville, Ky., wants bids September 6 for paving to cost about \$52,000 on Shelby, 12th and 21st Sts., and on Davies, Arlington, Ellison and Runtlinger avenues.

Piping.—Quenelda Graphite Co., Quenelda, Ala., wants prices on 6000 feet six-inch pipe.

Piping.—Artesian Farms Co., E. A. Lilly, president, Pearsall, Tex., wants prices on rotary pump with capacity for 3000 gallons per minute.

Plaster Laths, etc.—D. B. Loveman Company, Chattanooga, Tenn., wants addresses of manufacturers of material, such as beaver boards, plaster laths and other substitutes for plaster; prefer those that have tar or asphalt.

Pump.—Artesian Farms Co., E. A. Lilly, president, Pearsall, Tex., wants prices on rotary pump with capacity for 3000 gallons per minute.

Pump.—Pennsylvania Equipment Co., West End Trust Bldg., Philadelphia, Pa., wants prices on triplex pump (without engine) 8x13 inches, 375 to 400 gallons per minute; wants pump similar to 920-B Gould catalogue.

Pumps.—Quenelda Graphite Co., Quenelda, Ala., wants prices on steam pumps; capacity 500 gallons per minute.

Pumping Machinery.—Sand Springs Lumber Co., Sand Springs, Okla., wants prices on sand pumping plant machinery, including electric motor and sand pump.

Quarrying Equipment.—W. W. Boxley & Co., Roanoke, Va., want compressor, boilers and drills for quarry (near Pembroke, Va.) having daily capacity of 3000 to 2500 cubic yards ballast.

Rails.—W. M. Blount, president Birmingham & Southeastern Railway Co., Union Springs, Ala., wants 2000 tons 60-pound (new) steel rail for immediate shipment.

Rails.—J. Mortimer, Jr., general manager D. T. McKelthan Lumber Co., Lumber, S. C., wants one mile 35, 40 or 45-pound relaying rail with angle bars.

Railroad Construction Material and Equipment.—Atlantic, Dupont & Western Railroad, L. G. Williams, general manager, Dupont, Fla., will want 3 locomotives, 30 flat cars, 10 box cars, baggage car and 2 coaches; also 29 miles relay 60-pound steel and other equipment.

Reinforcing Bars, etc.—Proposals received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing steel reinforcing bars, planished iron, wrought-iron or steel pipe, soil pipe, steel cable, nails, horseshoes, hammers, truck handles, suction hose, magnesia pipe covering, steel tapes, chipped soap, belt dressing, spar varnish and cardboard. Blanks and general information relating to this circular (No. 728) may be obtained from this office or the offices of the assistant purchasing agents, 24 State St., New York City, and 614 Whitney-Central Bldg., New Orleans; also from the United States Engineer offices in Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City, and Chamber of Commerce, Quincy. F. C. Boggs, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

Reservoir.—Town of Kentwood, La., receives bids until September 3 to construct 125,000-gallon reservoir of reinforced concrete; plans and specifications on file and obtainable from George F. Conant, engineer.

Rims.—A. J. Orr, R. F. D. No. 2, Washington, Ga., wants two dozen hickory rims.

Road Construction.—County Clerk's office, Amelia, Va., receives bids until September 6 for building road between Mattox and Lad-re; plans and specifications on file with clerk and with State Highway Commissioner, P. St. J. Wilson, Richmond, Va.

Road Construction.—Ohio County Commissioners, Wheeling, W. Va., receive bids until August 29 to macadamize various roads in Triadelphia, Richland, Richie and Liberty districts; engineer in charge, A. S. Bell.

Road Construction.—Alleghany county road directors, Clinton Uhl, chairman, Cumberland, Md., receive bids until September 6 for about 2½ miles road construction; plans and specifications on file; grading and macadamizing.

Road Construction.—Chambers County

Commissioners, Lafayette, Ala., receive bids at noon September 14 for grading and surfacing with top-soil or sand-clay about 12 miles of road—Lafayette to West Point; about 40,000 cubic yards excavation and 250 linear feet bridging; profile and specifications on file with probate judge, A. J. Driver, Jr.

Road Construction.—Caddo Parish Police Jury, J. T. Bullen, parish engineer, Shreveport, La., receives bids until September 12 to construct hard-surface roadway on Hart's Ferry route; five miles; plans on file.

Road Construction.—Supervisors District No. 4 of Jackson county, Pascagoula, Miss., will open bids September 2 for constructing about two miles of shell road; W. W. Gruistend, secretary of commissioners, Gautier, Miss.

Road Construction.—Walton County Commissioners, De Funiak Springs, Fla., receive bids until September 23 for constructing 60 miles sand-clay road in Township 3 north, including necessary culverts; also 35 miles main line running east and west through entire county, and 25 miles lateral roads running north and south; certified check for \$500; Charles H. Gordon, clerk.

Road Construction.—Morgan County Commissioners, Decatur, Ala., receive bids until September 24 for clearing, grubbing, grading and draining State-aid road from Decatur to Hartselle; expenditure, \$8000; at same time for grading, draining and surfacing with gravel or macadam two miles of Decatur and Danville Rd.; W. S. Keller, State Highway Engineer, Montgomery, Ala.

Road Construction.—Coosa County Commissioners, Rockford, Ala., receive bids until September 16 (changed from August 18) to grade and surface with top soil about six miles of road; profile and specifications on file with Probate Judge; W. S. Keller, State Highway Engineer, Montgomery, Ala.

Road Construction.—County Commissioners, Clanton, Ala., receive bids until September 23 to grade, drain and resurface with gravel about six miles of State-aid road; W. S. Keller, State Highway Engineer, Montgomery, Ala.

Road Construction.—City of Leesville, La., E. C. Bray, chairman of streets and alleys committee, will open bids in about 30 days (or later) for construction of about five miles cement sidewalks.

Road Improvement.—Sealed proposals, addressed to G. L. Holly, secretary, will be received by Highway Commissioners, Supervisors District No. 1, Prentiss county, Mississippi, until 3 P. M. September 14, for permanent improvement of about 25 miles of roads; novaculite, chert or gravel for finishing surface, to be compacted with roller; alternate bids taken on sand-clay surfacing; concrete to be used in construction of smaller bridges and culverts, and vitrified pipe where practicable; bids invited for entire work, or any divisions, separately, consisting of grading, bridging, surfacing and furnishing all materials necessary for completing; plans, profiles and specifications on file at office of Chancery Clerk of Prentiss county, at office of Xavier A. Kramer, engineer, Magnolia, Miss., and with Hon. G. L. Holly, secretary, Booneville, Miss.; blank forms furnished upon application to engineer or commissioner; certified check for \$1000; W. P. Enis, G. M. McCarley, G. L. Holly, secretary, Highway Commissioners.

Safe, etc.—Citizens' Bank, Dr. William H. Mock, president, Prairie Grove, Ark., wants prices on safe and other bank fixtures.

Sawmill.—Quenelda Graphite Co., Quenelda, Ala., wants prices on sawmill outfit, including planers, joiners, rip and cross cut saws.

Scales.—W. D. Steinbach & Sons, Lewistown, Pa., wants prices on station scales for freight warehouse at Cumberland, Md.

Seating.—First Baptist Church, Rev. J. E. Martin, pastor, Jellico, Tenn., wants prices on seating for \$25,000 church building to contain 22 Sunday-school rooms and two auditoriums.

Sewer Construction.—City of Columbia, S. C., receives bids until September 3 to construct 510-foot 48-inch diameter circular concrete storm-water drain, etc., in Maney Gregg Park; plans, etc., on file with City Engineer, John McNeal.

Sewer Construction.—City of Austin, Tex., receives sealed bids until 10 A. M. September 24 to construct sanitary sewers as follows: About 355 feet 36-inch, 294 feet 33-inch, 571 feet 24-inch, 959 feet 21-inch, 882 feet 20-inch, 1138 feet 18-inch, 3899 feet 15-inch, 4629 feet 12-inch, 3688 feet 10-inch, 6219 feet 8-inch and 711 feet of 6-inch, with river outfall, stream crossings, etc., in accordance with plans and specifications by M. C. Welborn, chief engineer of sewers, on file in his office; certified check for \$2500; city reserves rights of rejection, etc., and of division of work between two or more contractors, provided no award be made for less amount

than \$30,000; bids addressed to John O. Johnson, City Clerk; deposit of \$10 required for set of plans and specifications; P. W. Powell, Superintendent of Streets and Public Improvements.

Sewer Construction.—Sealed bids received by Mayor and Aldermen, Douglas, Ga., until 3 P. M. September 17 for construction of from three to five miles 8 to 12-inch terra-cotta sanitary sewers; bidders must go over and examine ground themselves; plans and specifications may be seen at offices of J. D. Knowles, City Clerk, and of Arthur Pew, engineer, Atlanta, Ga., after September 1; specifications furnished free; no bid allowed to be withdrawn after deposit with City Clerk; certified check for \$500 required; B. H. Tanner, Mayor.

Sewer Construction.—Bids for construction of Rocky Branch joint district sewer received by city of St. Louis, Room 300 New City Hall, until 12 M. September 19; plans, specifications, etc., can be had at offices of Board of Public Improvements and Sewer Commissioner.

Sewers.—See "Water-works and Sewers."

Sewer Construction.—See paving bids invited by city of Cartersville, Mo.

Sewer Construction.—City of Newbern, N. C., invites bids on September 13 for constructing 1000 feet six-inch sewer on Griffith St. and 500 feet eight-inch sewer on Gulon St.; F. T. Patterson, City Clerk.

Ship Lamps.—D. Lichtscheff, Paroway, Tramway 6 Stat, Odessa, Russia, wants to correspond with American and English dealers in lamps and lights for ships.

Showcases.—W. C. Edwards, Saluda, S. C., wants \$300 to \$450 worth of counter showcases.

Slag Roof.—W. D. Steinbach & Sons, Lewistown, Pa., wants prices on slag roof.

Snow Sweeper.—Males Company, 82 Perin Bldg., Cincinnati, O., wants snow sweeper for removing snow from tracks around industrial building; send full data and photograph or print.

Stave and Heading Machinery.—Arkansas Lumber Co., Ruddels, Ark., wants prices on new or second-hand stave and heading machinery for making slack barrel stock.

Steel Shot.—Hackney Bros. Co., 6 W. 5th St., Charlotte, N. C., wants steel shot, 8x10, for well-drilling; buys in quantities.

Steel Stairway.—J. Bowers, St. Jo, Tex., wants prices on steel stairway.

Telephone Construction Materials.—W. M. Baughman Davis Rural Telephone Co., Davis, Okla., wants No. 12 B. B. wire, insulators, crossarms and poles.

Terra-cotta Pipe.—A. J. Driver, Jr., Probate Judge, Lafayette, Ala., wants prices on terra-cotta pipe.

Ventilating.—See "Heating and Ventilating."

Water-works.—United Water, Light & Traction Co., Somerset, Ky., will open bids September 3 for constructing water-works; daily capacity 1,000,000 gallons; to include filter plant and pump-house (25x50 feet), coagulating basin, 40 feet in diameter, 12 feet deep; clear well, 16 feet in diameter and 12 feet deep; J. O. Endris, Jr., engineer in charge, care of Middle West Utilities Co., New Albany, Ind.

Water-works.—City of Zebulon, Ga., opens proposals October 1 for constructing water-works; engineer, J. B. McCrary Company of Atlanta, Ga.

Water-works and Sewers.—Proposals received by Public Works Commission and Sewerage Commission, Cheraw, S. C., until 3 P. M. September 17 for building water-works and sewerage system; water-works will embrace electric pumping station, tower and tank, reservoir, auxiliary electric pumping station and about five miles of mains 6 to 10 inches; sewerage will consist of about five miles pipe sewers, 8 to 15 inches diameter, and appurtenances; plans and specifications on file at office of chairman and at office of engineer, Gilbert C. White, Charlotte, N. C.; specifications, etc., furnished on payment of \$5; certified check not less than 5 per cent. of bid, but not less than \$250; Wm. Godfrey, chairman.

Water-works.—Bids received until 4 P. M. September 19 for material and labor for water-works system at Winter Park, Fla.; plans and specifications on file with town clerk and John Lloyd Minnis, engineer, Birmingham, Ala.

Water-works Machinery.—City of Lake Providence, La., receives bids until noon September 24 for installing additional water-works machinery, including boiler and pump; William T. Bell, Mayor; plans and specifications ready about September 3.

Water-works.—Hotel Woodmen Co., O. P. McPherson, secretary, Gloster, Miss., wants prices on water-works for hotel containing 20 rooms and baths; to include hy-

draulic ram, tank with capacity 15,000 gallons, lake dam 200 yards long, turbine wheel, wire and piping.

Woodworking Machinery.—See "Sawmill."

Well-drilling.—Helton Oil Co., Perry, Okla., will open bids September 15 for drilling oil wells.

Well-drilling Machinery.—Rock Creek Oil & Gas Co., Box 303, Chickasha, Okla., wants prices on drilling machinery, tools, under-reamers and oil-well supplies.

Woodworking Machinery.—Arkansas Coopers Co., S. P. Dunn, president, Jennie, Ark., is receiving bids on machinery for manufacturing coiled elm hoops; daily capacity 50,000.

Woodworking Machinery.—See "Stave and Heading Machinery."

Woodworking Machinery.—Ed. Rulhard, Box 128, St. Martinville, La., wants addresses of manufacturers of and dealers in machinery to manufacture handles for wheelbarrows, brooms, spades, etc.

THE PETROLEUM INDUSTRY.

Increasing and Diversified Use of Oil for Power and Manufacturing.

Since the beginning of the oil industry in the United States over two and a half billion barrels have been produced, and the total value of the oil, reckoned in the crudest condition at the mouth of the well, is over two billion dollars. More than half of this oil has come from New York, Pennsylvania, West Virginia and Ohio, and all has been produced in two years over half a century. In the first half of this period nearly the entire product came from the Eastern fields, but lately the declining production of the Eastern States has been more than compensated by the enormous output in the West, so that of the total product of the United States, 972,429,805 barrels have been produced west of Mississippi River, and at this time the Midcontinent and California fields are the controlling influences in the oil production of this country. If a line is drawn across Ohio separating its eastern oil areas from the Lima area and the Lima oils are included in the Western production, then the West already exceeds the East in the total produced.

The annual report of the United States Geological Survey on the production of petroleum, compiled by David T. Day, shows that for 1911 California not only led in quantity of product (over 80,000,000 barrels), but produced almost half as much again as Oklahoma, the State second in rank. The Mid-Continent field omitted, California produced as much oil as the rest of the United States put together; the United States being omitted, California produced more oil than any entire nation, and if Russia and the United States are omitted, California far surpassed the combined production of all the rest of the world, including Mexico, India, Roumania, Galicia, Japan and South America.

The rank of the States is easily remembered when one recognizes California, Oklahoma and Illinois as forming a class by themselves, the lowest (Illinois) producing over 30,000,000 barrels and the three furnishing three-fourths of the entire output. The second group includes Louisiana, West Virginia, Texas, Ohio and Pennsylvania, in which Louisiana furnished a surprise by yielding the greatest product on record for that State (over 10,000,000 barrels) and passing to the head of this group, while the slight gain from two pools in Texas put that State in advance of Ohio again. In the third group, comprising Indiana, Kansas, New York, Kentucky, Colorado, Wyoming, Missouri, Utah and Michigan, the largest State production is less than a fourth of the lowest in the second group, and combined these States produced less than 2.2 per cent. of the total.

The changes which may be expected in

1912 may advance the rank of West Virginia by the development of the Blue Creek pool, Kansas may change places with Indiana, and Wyoming may head the third group.

The most important feature developed by the oil industry of 1911 has been the realization of a supply of fuel oil large enough to be reckoned on as a national asset in the production of power. During 1910 arguments became convincing that fuel oil was sufficiently plentiful on the Pacific coast to justify great trade and manufacturing expansion in California, and indeed the adoption of oil as fuel on the northern transcontinental railroads for significant portions of their lines and the introduction of oil as fuel as far north as Alaska, without bringing the consumption up to the level of present production, has given assurance of permanency of the supply sufficient for the industrial needs of the whole Pacific slope.

The solution of the corresponding problem on the Atlantic coast received much encouragement in 1911 by the great development of oil supplies in Mexico. The quantity of oil which the Mexican fields are now ready to furnish is variously estimated at 6,000,000 to 12,000,000 barrels a month. The total output in 1911 was perhaps a tenth as much, the production being limited not by supply or demand, but by transportation facilities. The needed tank steamers are being furnished as rapidly as they can be built, and meantime the popularity which fuel oil has obtained has already led to a doubling of its market price.

It should be borne in mind, however, that if there were tank steamers sufficient for all the oil that can now be furnished for the east coast, the market would probably be temporarily oversupplied. The consumers of fuel require time for the substitution of oil for coal, though the many advantages of oil are obvious.

Railroad consumption of fuel oil is especially popular because it gives added comforts in travel owing to the freedom from coal cinders, because it avoids the danger of forest fires, and particularly because it makes a saving in labor. In fact, until coal can be replaced by oil the weight of trains on mountain divisions is limited by the endurance of the fireman. In recommending the adoption of fuel oil on the mountain divisions of the Canadian Pacific Railway, William White, second vice-president, states that one of the reasons for this change is the removal of danger from conflagrations in the great forests of British Columbia. He also alludes to the failure of the immense locomotives now in use, saying: "It is not the failure of the locomotives; it is the failure of the fireman." A fireman shoveling coal on one of these locomotives for a distance of 130 miles is physically exhausted before getting to the end of the run. The Southern Pacific Company uses over 1200 oil-burning locomotives, the Santa Fe over 800, the Northern Pacific 20 and the Great Northern 115.

Consumption of Fuel Oil by the Railroads of the United States, 1906-1911.

Year.	Length of line operated by use of fuel oil, Miles.	Quantity of fuel oil consumed by railroads, Barrels.	Total mileage hauled by oil-burning engines, Miles.	Average number of million barrels of oil consumed.
1906.....	15,577,677	74,079,726	3.93	
1907.....	18,849,803	64,279,509	3.81	
1908.....	16,870,882	72,918,118	3.66	
1909.....	17,676	89,107,883	3.74	
1910.....	22,709	104,270,964	3.75	
1911.....	27,368			

*Some of these lines also used coal.

* It is estimated that nearly 50,000,000 barrels of the California oil in 1911 was used for fuel. The Texas and Louisiana fuel oil used is estimated at 9,000,000 bar-

rels, much of which was in the form of residues after light distillates were taken off. In the Mid-Continent field also crude oil as fuel is fast giving place to these "topped" oils. Of this material, about 2,000,000 barrels was consumed. Little oil from the Eastern fields finds use as fuel, because the heavy residuum is valuable for manufacture into lubricants, paraffin wax, etc. In all, nearly 62,000,000 barrels were probably consumed as fuel oil in 1911 in the United States; a fair estimate of the consumption for the preceding year is 61,000,000 barrels, the increase showing a growing appreciation of oil as fuel.

In the use of fuel oil for water navigation the advance in 1911 was world-wide.

Experience with fuel oil in the United States Navy has been so satisfactory that its use will be extended as rapidly as is permitted by considerations of supply and cost. Already the navy has 19 torpedo-boat destroyers that burn oil and 8 battleships that burn oil as auxiliary to coal. The battleships Nevada and Oklahoma, now under construction, will burn oil exclusively.

During the year 1911 the navy used 15,000,000 gallons of fuel oil, and it is estimated that the consumption for the present year will be 21,000,000 gallons.

California crude oil has been used for some time in reverberatory furnaces.

FINANCIAL NEWS

Review of the Baltimore Market.

Office MANUFACTURERS RECORD,

Baltimore, Md., August 28.

The Baltimore stock market continued quiet during the past week. In the trading United Railways common sold from 24 1/2 to 25 1/2; do. income bonds, 64 1/2 to 65 1/2; do. funding 5s, 88 1/2 to 89 1/2; do. notes, 103 1/2 to 103 3/4; do. 4s, 84 1/2 to 85; Consolidated Gas, Electric Light & Power preferred, 112 to 112 1/2; do. 4 1/2s, 88 1/2 to 89; Consolidated Gas 5s, 108; do. 4 1/2s, 95 1/2; Seaboard Air Line common, 23 1/2; do. preferred, 52 to 53, with last sale at 52 1/2; Mount Vernon-Woodberry Cotton Duck 5s, 74 3/4 to 75; G.-B.-S. Brewing 4s, 50 1/2 to 51.

Bank stock sold as follows: Merchants', 181 1/2 to 181; Mechanics', 29 1/2 to 30; Citizens', 42 1/2 to 42; Union, 133 1/2 to 134; First National, 140 1/2; Bank of Baltimore, 165 1/4; German, 100.

Maryland Trust sold at 110; United States Fidelity, 180 1/2; Mercantile Trust, 153; Baltimore Trust, 160.

Other securities were traded in thus: Atlantic Coast Line common, 145 1/2 to 145 3/4; Atlantic Coast Line of Connecticut, 275 to 273; do. 5-20s, 92; Atlantic Coast Line 4s, certificates, 85 1/2; do. convertible debenture 4s, 106 1/2 to 107 1/2; do. Connecticut 5s, certificates, 103 1/2; Coal & Iron 5s, 101 1/2; Fairmont Coal 5s, 96; Maryland Electric 5s, 98 1/2; Merchants' & Miners, voting trust, 81 1/2 to 84 1/2; Houston Oil common, trust certificates, 14 1/2 to 15 1/4; do. preferred 4s, 66 1/2 to 67 1/2, reacting to 66 1/4, with last sale at 66 1/2; do. dividend certificates, 84 1/2; Maryland & Pennsylvania income bonds, 70 1/2 to 73; do. common stock, 38 to 39 1/2; Washington, Baltimore & Annapolis 5s, 90 1/2 to 91; Western North Carolina 6s, 102 1/2; Georgia Southern & Florida 5s, 105 1/2; Knoxville Traction 5s, 105; Fairmont & Clarksburg Traction 5s, 100 1/2 to 101; Northern Central Railway stock, 125 1/2; Davison Chemical 6s, 100 1/4; Washington, Baltimore & Annapolis preferred, 34; Baltimore Brick 5s, 84; do. preferred, 26 1/2; Chicago Railways 5s, 99 1/2; Charleston & Western Carolina 5s, 106; Pennsylvania Water & Power common, 64; Georgia, Carolina & Northern 5s, 105 1/4; American Tobacco common, 273; Consolidation Coal refunding 5s, 93 1/2; Lexington Railway 5s, 94 1/4 to 94 1/2; Norfolk & Portsmouth Traction 5s, 89 1/2; Virginia Midland 5th, 105 1/2.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended August 28, 1912.

Railroad Stocks.	Par.	Bid.	Asked.
Atlantic Coast Line.....	100	145 1/2	
Atlantic Coast of Conn.....	100	273	276
Maryland & Pennsylvania.....	100	39	40

Monongahela Val. Trac. Pfd.....	100	80 1/2	
Seaboard Common.....	100	25	
Seaboard Pfd.....	100	62 1/4	63 1/2
United Rys. & Elec. Co.....	50	25 1/2	26
Wash., Balto. & Annap.....	100	13	15
Virginia Railway & Power.....	100	47	
Western Maryland.....	100	56 1/2	57 1/2

Bank Stocks.			
Bank of Baltimore.....	100	165	165 1/2
Citizens'.....	10	42	
First National.....	100	140 1/2	
Marine.....	30	42 1/2	
Mechanics'.....	10	28	30
Merchants'.....	100	180	181 1/2
Union.....	100	133 1/2	
Western.....	20		37 1/2

Trust, Fidelity and Casualty Stocks.			
Baltimore Trust.....	100	162	
Fidelity & Deposit.....	50	151	153
Maryland Casualty.....	25	98	
Mercantile Trust & Deposit.....	50	152 1/2	155
Union Trust.....	50	64 1/2	
U. S. Fidelity & Guaranty.....	100	180	180 1/2

Miscellaneous Stocks.			
Baltimore Electric Pfd.....	100	42 1/2	43 1/2
Con. Gas, Elec. Lt. & P. Com.....	100	110 1/2	
Con. Gas, Elec. Lt. & P. Pfd.....	100	112 1/2	113 1/2
Consolidation Coal.....	100	101	104
G.-B.-S. Brewing Co.....	100	3 1/2	4 1/2
Mer. & Min. Trans. Co. V. T.....	100	81	84

Railroad Bonds.			
Atlantic Coast Conv. Deben. 4s.....	107 1/2	107 1/2	
At. Coast (Conn.) 4s, Cfs. 5-20s.....	93	94 1/2	
Atlantic Coast (Conn.) 5s, Cfs.....	103		
Balto. & Harrisburg 5s.....	103 1/2		
Carolina Central 4s.....	92		
Charleston & West. Car. 5s.....	105 1/2	106 1/2	
Coal & Coke Ry. 5s.....	92 1/2	93 1/2	
Con. & Iron Ry. 5s.....	101		
Col. & Green. Ist 6s.....	104		
Florida Cent. & Pen. 5s.....	105		
Georgia & Alabama 5s.....	105 1/2		
Geo. Caro. & North. Ist 5s.....	105	106	
Georgia Pacific Ist 6s.....	110 1/2	111 1/2	
Geo. South. & Fla. Ist 5s.....	104 1/2	106	
Macon, Dublin & Sav. 5s.....	98		
Maryland & Penna. Term. 5s.....	102 1/2		
Maryland & Penna. 4s.....	88	89 1/2	
New Orleans Great North. 5s.....	71	71 1/2	
Petersburg Class A 5s.....	105 1/2		
Petersburg Class B 5s.....	112		
New Orleans, Mob. & Chi. 5s.....	88 1/2	89	
Potomac Valley Ist 5s.....	106 1/2	107 1/2	
Raleigh & Gaston 5s.....	108 1/2		
Savannah, Fla. & West. 5s.....	106 1/2		
Seaboard 4s, Stamped.....	87		
Seaboard Adjustment 5s.....	79		
Seaboard & Roanoke 5s.....	104	105	
Seaboard & Roanoke 6s.....	102		
Southern Ry. Con. 5s.....	106 1/2		
Virginia Mid. 3d 6s.....	104		
Virginia Mid. 5th 5s.....	105	106	
Washington & Vandemere 4 1/2s.....	96 1/2		
Western N. C. Con. 6s.....	102 1/2		
Wilmington & Weldon 5s.....	108		
Wash., Balto. & Annap. 5s.....	90 1/2	91	

Street Railway Bonds.			
Anacostia & Potomac 5s.....	99 1/2	100	
Ancostia & Potomac 5s, Cfd.....	100	102	
Augusta Ry. & Elec. 5s.....	102		
Balto. Spar. Pt. & C. 4 1/2s.....	96 1/2	97 1/2	
Balto. Trac. Ist 5s.....	106		
Balto. Trac. (Nor. Balto.) 5s.....	108		
Central Ry. (Balto. Extn.) 5s.....	106 1/2	107	
Charleston City Ry. 5s.....	103 1/2	104 1/2	
Charleston Con. Elec. 5s.....	96	97 1/2	
City & Suburban 5s (Balto.).....	104		
City & Suburban 5s (Wash.).....	104		
Fairmont & Clarksburg Trac. 5s.....	100 1/2	101	
Knoxville Trac. 5s.....	105		
Lake Roland Elev. 5s.....	107		
Lexington Ry. Ist 5s.....	94	94 1/2	
Macon Ry. & Lt. 5s.....	99	100 1/2	
Maryland Elec. Rys. 5s.....	98 1/2	99 1/2	
Memphis Street Ry. 5s.....	98 1/2	100	
Newport News & O. P. 5s.....	98 1/2	99 1/2	
Norfolk & Ports. Trac. 5s.....	89 1/2	89 3/4	
Norfolk Ry. & Lt. 5s.....	98 1/2	100	
Norfolk & Atl. Term. 5s.....	93		
United Rys. Ist 4s.....	84 1/2	85	
United Rys. Inc. 4s.....	65 1/4	65 1/2	
United Rys. Pfd. 5s.....	88	89	
United Rys. Notes.....	102 1/2	103 1/2	
Virginia Ry. & P. 5s.....	96 1/2	96 3/4	

Miscellaneous Bonds.			
Baltimore Brick 5s.....	83	84	
Baltimore Elec. 5s, Stamped.....	97	97 1/2	
Consolidated Gas 5s.....	107 1/2	109	
Consolidated Gas 4 1/2s.....	95 1/2	96	
Con. Gas, Elec. Lt. & P. 4 1/2s.....	89	89 1/2	
Con. Coal Refd. 5s.....	93 1/2	93 3/4	
Con. Gas, Elec. Lt. & P. Notes.....	99 1/2		
Fairmont Coal Ist 5s.....	95 1/2	96 1/2	
G.-B.-S. Brewing Ist 4s.....	50 1/2	51 1/2	
G.-B.-S. Brewing Inc. 5s.....	15		
Maryland Steel Co. 5s.....	74 1/2	75	
Mt. Ver. & Wood. Mills 5s.....	74 1/2	75	
United Elec. Lt. & Power 4 1/2s.....	93 1/2	93 3/4	

SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C., for Week Ending August 26.

	Bid.	Asked.
Abbeville Cotton Mills (S. C.).....	70	75
Aiken Mfg. Co. (S. C.).....	55	
American Spinning Co. (S. C.).....	162	
Anderson Cotton Mills (S. C.).....	48	
Anderson Cot. Mills (S. C.) Pfd.....	100	
Arendia Mills (S. C.).....	90	
Arkwright Cotton Mills (S. C.).....	99	
Bolton Mills (S. C.).....	100	110
Brandon Mills (S. C.).....	90	
Brogan Mills (S. C.).....	60	
Chiquola Mfg. Co. (S. C.).....	160	
Clinton Mfg. Co. (S. C.) Pfd.....	97	
Clinton Cotton Mills (S. C.).....	120	
Courtney Mfg. Co. (S. C.).....	93	
Dallas Mfg. Co. (S. C.).....	99	
D. E. Converse Co. (S. C.).....	78	
Drayton Mills (S. C.).....	90	
Eagle & Phenix Mills (Ga.).....	106	
Eastley Cotton Mills (S. C.).....	162	175
Enoree Mfg. Co. (S. C.).....	25	62
Enoree Mfg. Co. (S. C.) Pfd.....	85	100
Gaffney Mfg. Co. (S. C.).....	72	75
Jainessville Cotton Mills (Ga.).....	72	80
Jenwood Cotton Mills (S. C.).....	140	
Graniteville Mfg. Co. (S. C.).....	15	145
Greewood Cotton Mills (S. C.).....	57	60
Grendel Mills (S. C.).....	90	
Hartsville Cotton Mill (S. C.).....	180	
Hennietta Mills (N. C.).....	160	175
Inman Mills (S. C.).....	100	
Kling Mfg. Co. J. P. (Ga.).....	80	85
Lancaster Cotton Mills (S. C.).....	130	
Lancaster Cot. Mills (S. C.) Pfd.....	97	100

Langley Mfg. Co. (S. C.).....	76
Laurens Mills (S. C.).....	125
Limestone Mills (S. C.).....	155
Lockhart Mills (S. C.).....	60
Lockhart Mills (S. C.) Pfd.....	90
Loray Cotton Mills (N. C.) Pfd.....	90
Marlboro Cotton Mills (S. C.).....	75
Mills Mfg. Co. (S. C.).....	90
Molokan Mfg. Co. (S. C.).....	105
Monaghan Mills (S. C.).....	90
Monarch Cotton Mills (S. C.).....	110
Newberry Cotton Mills (S. C.).....	125
Ninety-Six Cotton Mills (S. C.).....	130
Norris Cotton Mills (S. C.).....	115
Orr Cotton Mills (S. C.).....	90
Pacolet Mfg. Co. (S. C.).....	94
Pacolet Mfg. Co. (S. C.) Pfd.....	95
Parker Common.....	29
Pelzer Mfg. Co. (S. C.).....	120
Poe Mfg. Co. F. W. (S. C.).....	110
Saxon Mills (S. C.).....	130
Spartan Mills (S. C.).....	110
Trion Mfg. Co. (Ga.).....	130
Tucapau Mills (S. C.).....	350
Union-Buffalo (S. C.) Ist Pfd.....	60
Union-Buffalo (S. C.) 2d Pfd.....	16
Victor Mfg. Co. (S. C.).....	110
Warren Mfg. Co. (S. C.).....	80
Warren Mfg. Co. (S. C.) Pfd.....	100
Washington Mills (Va.).....	25
Washington Mills (Va.) Pfd.....	105
Whitney Mfg. Co. (S. C.).....	110
Wiscasset Mills (N. C.).....	125
Woodruff Cotton Mills (S. C.).....	95
Woodside Cotton Mills (S. C.).....	100
Watts Mills (S. C.).....	70
Williamson Mills (S. C.).....	130

FINANCIAL CORPORATIONS.

Ark., Blevins.—The Bank of Blevins, an entirely new concern, is incorporated to begin business about October 15. Capital \$10,000 paid in out of \$25,000 subscribed. Officers and directors to be announced later.

Ala., Eufaula.—The Eufaula Loan & Investment Co., capital \$100,000, is reported being organized with W. Lawrence Wilde, president; Humphrey Foy, vice-president; T. G. Wilkinson, secretary and treasurer.

Ala., Section.—Official: The Section Bank, a new concern, has been incorporated and will begin business about October 10; capital \$10,000. The directors are: President, Dr. E. R. Smith of Section, Ala.; vice-president, G. B. Phillips; Gayle Ford of Dixon Springs, Tenn.; O. C. Hachworth of Scottsboro, Ala.; and D. W. Powell of Section, Alabama.

Ark., Prairie Grove.—The Citizens' Bank is reported organized with \$30,000 capital. Dr. W. H. Mock is president; W. W. Carl, vice-president; M. M. Collier, secretary-treasurer, the other directors being R. C. Wilson and Oscar Deuring.

D. C., Washington.—The First National Fire Insurance Co. of the United States, with headquarters in the Southern Building, is reported to have completed organization plans; Tuttle, Wrightman & Dudley, Washington, arranged preliminaries; capital and surplus subscribed, \$1,000,000. Robert J. Wynne is president; Ashley M. Gould, first vice-president; Robert N. Harper, second vice-president; Robert R. Tuttle, third vice-president; Charles F. Crussel, general counsel; Frederick S. Dudley, treasurer, and William J. Davis, secretary. The other directors are George W. Atkinson, William H. Ingersoll, H. C. Shover and John Lewis Smith.

Fla., Bradentown.—First National Bank of Bradentown has been chartered; capital \$40,000. T. C. Taliaferro is president and John T. Campbell cashier. It is a conversion of the Bank of Manatee.

Fla., Jacksonville.—The Consolidated Investment Co., which proposes to conduct a real estate business with headquarters at Jacksonville, publishes its charter; capital \$25,000. John Ball is president; Harry Lewis, vice-president; Elmo Thames, secretary and treasurer, the other incorporator being A. C. Hillman.

Fla., Tallahassee.—Reported that L. O. Benton, president of the Carrabelle (Fla.) State Bank, will organize a new bank at Tallahassee within a month.

Fla., St. Petersburg.—The American State Bank, says a report, has obtained a new charter, changing its name to the American Bank & Trust Co. and increasing the capital from \$50,000 to \$100,000, enabling it to conduct a trust company business. A. P. Avery is president; W. R. Howard, vice-president; A. C. Odum, Jr., cashier, and D. E. Beach, assistant cashier.

Ga., Atlanta.—The Hillyer Trust Co. has changed its name to the Atlanta Trust Co. and increased its capital from \$250,000 to \$500,000, amending its charter for the purpose. Henry Hillyer is president; William Hurd Hillyer, vice-president and treasurer.

Ga., Camilla.—The Mitchell County Bank of Camilla, capital \$25,000, is reported to have applied for charter.

Ga., Pulaski.—The Farmers' Bank of Pu-

[For Additional Financial News, See Pages 72 and 73.]

Established 1835
The Merchants National Bank
 South and Water Sts., BALTIMORE, MD.
 DOUGLAS H. THOMAS, President.
 WM. INGLE, Vice-President and Cashier.
 J. C. WAXLER, Asst. Cashier.
 JOHN B. H. DUNN, Asst. Cashier.
 Capital \$1,500,000
 Surplus and Profits - \$900,000
 Deposits \$12,000,000
 Accounts of Banks, Bankers, Corporations and Individuals solicited. We invite correspondence.

THE FIRST NATIONAL BANK
 OF KEY WEST, FLA.
 United States Depository and Disbursing Agent.
 Capital - - - - \$100,000
 Surplus and Undivided Profits - \$40,000
 A general banking business transacted. Special attention given to collections.

INVESTMENT SECURITIES
 Southern Stocks and Bonds
 Municipal and Corporation
 Cotton Mill Stock a Specialty
 WM. S. GLENN, Broker - SPARTANBURG, S. C.

JOHN NUVEEN & CO.
 1st Nat. Bank Bldg., CHICAGO
 We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.
 Write us if you have bonds for sale.

Delaware Trust Company
 WILMINGTON, DELAWARE
 INCORPORATING under broad, liberal, safe and stable Delaware laws. A fully equipped department for proper organization and registration of corporations.
 BANKING AND TRUST department gives special attention to out of town customers' accounts.
 TITLE DEPARTMENT examines and guarantees title to realty throughout Delaware.
 REALTY DEPARTMENT has sites for manufacturing industries. Modern Methods of management of property.
 EDWARD T. CANBY, President.
 J. ERNEST SMITH, V.-Pres. and Gen. Counsel.
 WM. G. TAYLOR, Treasurer.
 HARRY W. DAVIS, Secretary.
 W. W. PUSEY, 2d Title and Real Estate Officer.

H. B. Wilcox, President Blanchard Randall, V.-Pres.
 Wm. S. Hammond, Cashier
 Saml. W. Tschudi, A. Cash. R. E. Bolling, A. Cash.
The First National Bank
 17 South St., Baltimore, Md.
 Capital - - - - \$1,000,000
 Surplus and Net Profits - - 400,000
 Deposits - - - - 6,500,000
 Especially well equipped to handle the business of Southern Banks, Corporations, and Individuals and Manufacturers. We cordially invite correspondence and interviews.

The National Exchange Bank
 OF BALTIMORE, MD.
 Hopkins Place, German and Liberty Sts.
 Capital, \$1,000,000
 July 15, 1908, Surplus and Profits, \$671,631.60
 OFFICERS:
 WALDO NEWCOMER, President.
 SUMMERFIELD BALDWIN, Vice-Pres.
 R. VINTON LANSDALE, Cashier.
 C. G. MORGAN, Asst. Cashier.
 Accounts of Mercantile Firms, Corporations, Banks, Bankers and Individuals invited.

SURETY BONDS
Fidelity & Deposit Co.
 OF MARYLAND
 Home Office, - - BALTIMORE, MD.
 Total Assets Dec. 31, 1911, \$8,133,000.57
 Pioneer Surety Co. of the South.
 Becomes Surety on bonds of every description.

AGENTS IN ALL PRINCIPAL CITIES
 HARRY NICODEMUS, EDWIN WARFIELD,
 Sec'y and Treas. President

Southern Steam Railroad Securities
 DEALT IN
F. J. LISMAN & CO.
 Specialists in Steam R. R. Securities
 Members New York Stock Exchange
 30 Broad Street NEW YORK
 39 Pearl Street, Hartford
 Land Title & Trust Bldg., Philadelphia

CAPITAL AND SURPLUS - - - - \$3,500,000
THE BALTIMORE TRUST CO.
 BALTIMORE, MD.
 Solicits Accounts of Banks, Bankers, Corporations and Individuals.
 Interest Allowed on Deposits Subject to Check.
 Special Rates Made on Time Deposits.
 OFFICERS
 DOUGLAS H. GORDON, President CHAS. D. FENHAGEN, Vice-Pres.
 GEORGE C. MORRISON, Vice-Pres. EDWIN W. POE, Sec.-Treas.



WE BUY City, County, School and Drainage BONDS
 FROM MUNICIPALITIES OR CONTRACTORS
 We are in position to pay HIGHEST PRICES. Write or wire us your offerings.
THE NEW FIRST NATIONAL BANK, Assets, \$6,000,000 Columbus, Ohio

BONDS
 BOUGHT AND SOLD
 Approved Securities Offered
 Are you on our mailing list?
 BOND DEPARTMENT
 The Fifth-Third National Bank
 CINCINNATI, OHIO

GO SOUTH!
FOR SALE Timber, Coal, Iron, Ranch, Phosphate, Other Properties, Southern States, West Indies, Mexico.
SOUTHERN STATES DEVELOPMENT CO.
 (Brokers) GEO. B. EDWARDS, Pres.
 Tribune Building NEW YORK, N. Y.
 Negotiations, Investigations, Settlements.
 Purchases of Property, Information

CHARLES L. HEHL, C. P. A., President
 JOHN KÜCHLER, C. P. A., Vice-President

Phone Main 432. Member N. O. Stock Exchange
S. A. TRUFANT
 403 Hennen Building
 NEW ORLEANS, LA.
Investment Securities

CHARLES NEVILLE
 Certified Public Accountant
 501-502 Savannah Bank & Trust Co. Bldg.
 SAVANNAH, GA.

Employing a staff of thoroughly qualified accountants

4% to 6%
 Paid on our debentures. Secured by notes and mortgages in the custody of trustee.
 Write us for booklet explaining in full our method.
TENNESSEE MORTGAGE & INVESTMENT CO.
 JACKSON, TENN.

ELMER L. HATTER, C. P. A., Treasurer
 ERNEST E. WOODEN, C. P. A., Secretary

BALTIMORE AUDIT COMPANY
 1027-1033 Calvert Building BALTIMORE, MD.
 BRANCH—Monticello Arcade Building, Norfolk, Va.

CORDAGE QUALITY

High standard of quality is the keynote to the world-wide use of American Manufacturing Company's products. We are manufacturers of all kinds of rope and twine for every purpose where cordage is used.
 The leaders in our line are

AMERICAN MANILA ROPE
AMERICAN TRANSMISSION ROPE
AMERICAN DRILLING CABLES
AMERICAN LATH YARN
AMERICAN SISAL ROPE
JUTE ROPE and TWINES

Write us for full information on any sort of cordage you are interested in, from the heaviest towing hawser to the smallest twine. We will gladly send you prices and explanatory literature.

Why not do that at once?

AMERICAN MANUFACTURING COMPANY
 BROOKLYN NOBLE AND WEST STREETS NEW YORK CITY

Municipal Bonds Purchased

Correspondence invited from Investors wishing to sell their holdings of seasoned marketable Municipal Bonds, and from municipal officials and contractors in connection with entire new issues.

N. W. HALSEY & CO.

49 Wall Street, New York

PHILADELPHIA

CHICAGO

SAN FRANCISCO

RESOURCES - - - - \$14,975,352.57
 DEPOSITS DEC. 31, 1909.....\$ 8,041,252.59
 DEPOSITS DEC. 31, 1910..... 8,809,843.00
 DEPOSITS DEC. 31, 1911..... 10,344,570.57

This growth indicates that we have the ability and disposition to give GOOD TRUST COMPANY SERVICE. We can prove it—to your advantage.
 ALLOWS INTEREST on daily balances of \$500 or over, subject to check, and special rates for time deposits.
 ACTS AS TRUSTEE under mortgage, Registrar and Transfer Agent of Stocks and Bonds of Corporations.
 Securities held on deposit for out-of-town corporations and individuals.
 Acts as Financial Agent for Municipalities and Corporations.

MERCANTILE TRUST & DEPOSIT COMPANY
 OF BALTIMORE
 CAPITAL - \$1,500,000.00 SURPLUS - \$3,000,000.00

aski, capital \$25,000, is reported to have applied for charter.

Ga., Rome.—The National City Bank of Rome has been approved; capital \$100,000; organizers, John M. Graham, E. P. Harvey, W. Willingham and J. T. Wilkerson.

Ga., Wesley.—Official: The State Bank of Wesley has been organized by D. H. Atkins, L. P. Strange, S. A. Waller, J. M. Brown and others; capital \$25,000. Business is begun. C. R. Williams is president; John N. Youmans and H. R. Daniel, vice-presidents; G. A. Fountain, cashier, and C. W. Brantley, assistant cashier.

Ky., Beattyville.—The People's Exchange Bank of Beattyville has been chartered with \$15,000 capital; incorporators, D. B. Redwine, W. S. Thomas, J. K. Roberts, Logan Thomas and J. H. Evans.

Ky., Bandana.—Local business men are reported organizing a bank which is to begin business about October 1.

Ky., East Bernstadt.—Official: The First National Bank has been incorporated to succeed the East Bernstadt Banking Co.; capital \$25,000; surplus \$600. J. W. Creech is president; S. L. Bastin, vice-president, and W. Q. Harned, cashier.

La., New Orleans.—The Banking Trust Co. is to begin business about October 1 at 206 Carondelet St. W. Morgan Gurley, vice-president and general manager, is quoted as making the announcement. Ovide LaCour is president; Arthur B. LaCour, treasurer; J. B. Levert, chairman of the board, other directors being Johnston Armstrong, Jules M. Burgieres, William C. Dufour, W. N. Grunewald, F. A. Maddox, John May, William Pfaff, John Pointevant and R. N. Sims.

Miss., McComb.—William McColgan and Hugh McColgan, both of McComb, and J. H. Price of Magnolia, Miss., are reported organizing a building and loan association in McComb; capital \$100,000.

Miss., Newton.—Official: The Newton County Bank, a new concern, is incorporated with \$50,000 capital and will begin business about October 1. The incorporators include R. W. Millsaps and Z. D. Davis of Jackson, Miss.; J. J. Tatum of Newton, Miss., and others.

Mo., Holstein.—The State Bank of Holstein, capital \$10,000, is reported organized with Bernard Macke president, Dr. A. M. Underwood vice-president and H. M. Smith cashier.

Miss., State Lane.—The Citizens' Exchange Bank of State Lane, Wayne county, is chartered; capital \$10,000; incorporators, W. S. Gaudy, W. C. Westerfeld, L. N. Knobles, Mrs. R. L. Briggs and others, all of State Lane.

Okla., Locust Grove.—The First State Bank of Locust Grove, capital \$15,000, has been incorporated by W. B. Kane of Joplin, Mo.; L. W. Ross, W. A. Markham and Lee A. Daugherty, all of Locust Grove, Okla.; T. C. Harrill of Wagoner, Okla.; Charles B. Gulnn of Carthage, Mo., and H. C. Henson of Carterville, Mo.

Okla., Oklahoma City.—Henry M. White of Luray, Va., it is reported, contemplates establishing a bank in Oklahoma City.

Okla., Watts.—The Guaranty Bank of Watts, capital \$10,500, is chartered; incorporators, J. L. Russell of Watts, K. G. Comfort of Westville, F. C. Adams, Dutch Mills, and F. S. Howard of Baron, Okla.

S. C., Andrews.—The Bank of Andrews has been chartered; capital \$20,000. W. H. Andrews is president and H. W. Fraser vice-president, secretary and cashier.

S. C., Bennettsville.—The Mutual Trust Co. of Bennettsville is chartered for a real estate loan and insurance business; capital \$10,000. The officers are J. W. Le Grand, president; T. B. McLaurin, vice-president and general manager; P. M. Crosland, secretary and treasurer.

S. C., Branchville.—The Branchville Building and Loan Association, capital \$25,000, has been chartered; incorporators, P. P. Bethen, L. H. Fairley, Steadman Weathersbee and J. B. Williams.

S. C., Brunson.—The Merchants and Planters' Bank, capital \$15,000, has been incorporated with E. W. Addison, president; G. W. Cone, vice-president, and X. C. Minor, secretary.

S. C., Charleston.—The Menpshaw Securities Co., a real estate concern, has been chartered with \$1000 capital. J. F. Ficken is president, H. H. Ficken secretary and H. D. Workman treasurer.

S. C., Cottageville.—The Bank of Cottageville, capital \$15,000, is reported organized by B. G. Willis, R. A. Ackerman, B. H. Willis, J. D. Ackerman, E. M. Redman and others.

S. C., Yemassee.—Official: The Bank of Yemassee, a new concern, has been chartered with \$10,000 capital and will begin business September 1. President, W. E. Richardson, Beaufort, S. C.; vice-president, W. D. Sanders, cashier, W. E. Eubanks, both of Yemassee, S. C.

Va., Richmond.—The First National Bank and the National Bank of Virginia, according to published announcement, are to consolidate on August 29 as the First National Bank with a combined capital of \$2,000,000, surplus of \$1,000,000 and deposits of nearly \$14,000,000. It is stated that the new officers will be: John B. Purcell, president; John M. Miller, Jr., vice-president; W. M. Addison, cashier; W. J. Habliston, chairman of the board.

Tenn., Linden.—It is denied that the Linden Savings Bank & Trust Co. is being organized, as was recently reported.

Tenn., Memphis.—The Commonwealth Trust Co. is being organized with authorized capital of \$1,000,000 and is to begin business about October 1 with \$400,000 capital paid in. G. H. Barney of Gloster, Miss., will be president; P. P. Williams, vice-president, and A. Y. Allen, cashier. Others interested are E. R. Parham, W. A. Hein, A. L. Parker, C. P. J. Mooney, H. P. Johnson, Thomas A. Evans, Albert W. Biggs, J. A. Riechman, John L. Parham, Phil Pidgeon, D. A. Fisher, T. H. Tutwiler, T. H. Hilton, J. H. Hines, E. E. Edmunds and J. H. Phillips.

Tex., Aransas Pass.—The First National Bank of Aransas Pass, capital \$25,000, has been approved. Incorporators: T. B. Wheeler, A. Warren, W. H. Young, L. J. Usher and C. E. Henry, directors.

Tex., Gregory.—Chartered: First National Bank of Gregory; capital \$25,000. Joseph F. Green is president and E. J. Miller cashier. It succeeds the Taft Ranch Bank of Gregory.

ASSETS REALIZATION COMPANY

CAPITAL, - \$10,000,000

Finances important established enterprises fundamentally sound but hampered by shrinkage of quick assets. Special facilities for investigation and supervision.

CORRESPONDENCE INVITED

NEW YORK 25 Broad Street PHILADELPHIA Latayette Building CHICAGO First National Bank Building

PROPOSALS

Notice of Sale of \$80,000.00 of Thirty-Year 5 Per Cent. Coupon Bonds of the City of Greensboro

Until 2:30 P. M. September 16, 1912, the undersigned will receive sealed bids for all or any part of an issue of Fifty Thousand Dollars of Thirty-year 5 Per Cent. Coupon Bonds of the City of Greensboro, North Carolina, for Street Improvement purposes; for all or any part of an issue of Ten Thousand Dollars of Thirty-year 5 Per Cent. Coupon Bonds of said city for Water and Sewerage purposes; for all or any part of an issue of Twenty Thousand Dollars of Thirty-year 5 Per Cent. Coupon Bonds of said city for erecting a City Market House.

Said Bonds to be in denominations of \$1000 each, interest payable semi-annually on the first days of August and February.

The validity of these Bonds has been passed upon and approved by Messrs. Caldwell, Mussilich & Reed, No. 100 Broadway, New York City, and they will be certified and delivered by the United States Mortgage & Trust Company, 55 Cedar street, New York City.

All proposals must be made upon forms furnished by the City of Greensboro, and must be accompanied by a certified check on some reputable bank for 2 per cent. of the amount of bonds bid for, payable to the order of the Treasurer of said city. The purchaser must pay accrued interest in addition to the amount that is bid.

No bid will be considered for less than par.

Sealed bids will be opened by the Board of Commissioners of the City of Greensboro on September 16, 1912, at 2:30 P. M., or later, and the right is reserved to reject any and all bids.

For further information address T. J. MURPHY, Mayor, Greensboro, N. C.

This the 26th day of August, 1912.

Tex., Hillsboro.—The Citizens' National Bank and the Sturgis National Bank are reported merged with capital of \$350,000 under the name of the former. T. G. Hawkins is chairman of the board; George Carmichael, president; George L. Porter and O. G. Bowman, vice-presidents; R. C. West, cashier; M. H. De Witt and C. S. Morgan, assistant cashiers.

Tex., Hillsboro.—The Sturgis Bank, Inc., is reported organized with George F. Sturgis president and Eldred McKinnon cashier.

Tex., Houston.—The Pan-American Trust Co. of Houston is reported chartered with authorized capital of \$100,000. Incorporators: A. F. Fincher, H. E. Cassland, Russell Ramsey, George W. Boynton and S. N. Craig, all of Houston.

Tex., Kennedy.—The Farmers & Merchants' Bank, capital \$30,000, has begun business in the Reasoner Bldg. The direc-

tors are L. E. Bain, president; Clem Reasoner, vice-president; Miss Annie Rawls, cashier; V. A. Smith, J. B. Cannon, T. G. Butler, Dr. R. L. Hammock, W. M. Schroeder.

Tex., Kirvin.—Official: The Guaranty State Bank of Kirvin, a new concern, is chartered with \$10,000 capital and will open for business September 1. The directors are A. P. Carter, president; G. B. Everett, G. W. Brown, T. C. Simmons and W. L. Fortes.

Tex., Newsome.—The First State Bank of Newsome, capital \$12,000, is reported chartered.

Tex., Nocona.—The First State Bank of Nocona, capital \$12,500, is reported chartered. Tex., Sandia.—The Sandia State Bank, capital \$10,000, has been incorporated by C. P. Randolph, J. H. Gallagher, Vernon Porter and others.

Va., Marshall.—The Marshall National

Capital for Southern Industries Peabody, Houghteling & Co.

(Established 1865)

105 So. La Salle Street CHICAGO, ILLINOIS

To Manufacturers and Capitalists

Contemplating the Establishment of Industrial Enterprises

Attention is called to the exceptionally favorable location of

NEWPORT NEWS, VA.

on Hampton Roads, fifteen miles from the sea. Deep water, railway and sea transportation facilities unrivaled. Climate salubrious. Apply to

W. B. LIVEZEY, President

OLD DOMINION LAND COMPANY
NEWPORT NEWS, VA.



Models for every line of business

WALE'S Users Pay no "Service" Charges

Is the purchase price all your adding machine costs you?

Why not buy a machine which gives service without inspection charges, that carries with it a signed and sealed 5-year guarantee? We have records of WALE'S in use 5, 6 and even 7 years without costing one cent for repairs or inspection. That's the kind of service the WALE'S gives you.

WALE'S Visible Adding Machine

You buy with the WALE'S the operating features of visible printing, visible total, automatic "clear signal," flexible keyboard, easy and speedy action, which combine to make the WALE'S unusually valuable in saving time and labor. These facts are heartily endorsed by nationally known firms in every line of business.

Get all the facts by mailing the coupon.
Free Trial. Easy payments, if you wish.

The Adder Machine Company

275 Walnut St., Kingston Station, Wilkes-Barre, Pa.

Agents in All Leading Cities

Name _____

Address _____

Business _____

Mfrs. Record 8-29-12.

Send particulars of your free trial offer and booklet describing the WALE'S Visible.

Pin
Coupon
to your
Letter head

Bank has been approved; capital \$40,000. It is a conversion of the Bank of Marshall, Inc. J. S. Mason is president and F. M. Hardesty cashier.

NEW SECURITIES.

Ala., Birmingham.—Bids will be received at noon September 7 by the Board of Revenue of Jefferson county for \$100,000 of 4½ per cent. 10-year hospital bonds. Job Going is president of the board.

Ala., Guin.—Official: Bids will be opened October 1 for \$6500 of city public school building bonds, 5 per cent. 10-year, denomination \$500. R. H. Wright is clerk.

Ala., Hartselle.—\$15,000 of school bonds have been sold to the new National Bank of Columbus, O., at par and the blank bonds.

Ala., Talladega.—\$25,000 of Talladega paving bonds have been purchased by S. P. McDonald, president of the First National Bank of Sylacauga, Ala., the price being par and interest. A press report recently said that the price was 90½, but that was a mistake.

Ark., Little Rock.—The Wm. R. Compton Company of St. Louis is reported offering for sale \$60,000 of 5½ per cent. Little Rock street-improvement bonds; denomination \$1000.

Ark., Russellville.—About \$25,000 of 6 per cent. 10-year bonds of sewer improvement district No. 1 are reported sold at par and the blank bonds to Frank B. Silger of St. Louis, representing the order of Knights and Ladies of Honor.

Fla., Dade City.—The city has decided to call an election for \$15,000 of bonds, of which \$3000 will be for a schoolhouse and the rest for street improvement.

Fla., Jacksonville.—A special session of the Legislature has been called for October 1 to consider the proposition of the Jacksonville Board of Trade that the city be authorized to issue \$1,500,000 of bonds for purchasing and equipping city docks, providing for dock commissioners and other details.

Fla., Jacksonville.—Bids will be received until 3 P. M. October 15 by W. M. Bostwick, Jr., chairman of the Board of Bond Trustees, for \$100,000 street, \$100,000 water and light, and \$50,000 of park bonds, 4½ per cent., 20-year; denomination \$1000.

Fla., Plant City.—The city has decided to vote on \$70,000 of bonds in November instead of \$15,000, the addition of \$5000 being for drainage. The other items are: Paving, \$25,000; sewers, \$25,000; city hall, \$3000; to liquidate floating debt, \$12,000. These bonds will be all 6 per cent., 20-year. W. V. Herling is Mayor and W. L. Lowry is City Clerk.

Fla., Tampa.—Bids are being received until 10 A. M. September 10 for \$115,000 of 5 per cent. Lafayette St. bridge bonds at not less than par; denomination \$1000. D. R. McKay is Mayor and W. A. Johnson City Clerk.

Ga., Bowdon.—An election is called for September 28 to vote on \$20,000 of 5 per cent. bonds, denomination \$1000, of which \$8000 will be for water-works, \$8000 for electric-light plant and \$4000 for streets. W. T. Beck is Mayor pro tem, and G. W. Cole is Clerk.

Ga., Brunswick.—The Clerk of Glynn county is quoted saying that it is probable an election will not be called before January to vote on \$100,000 of road bonds.

Ga., Calhoun.—An election is called for September 13 in Gordon county on \$150,000 of road bonds.

Ga., Columbus.—There have been conflicting reports concerning the result of the bond election August 10 for \$350,000 of 4½ per cent. water-works bonds, but it is now stated by M. M. Moore, clerk, that the bonds were defeated. The Mayor, L. H. Chappell, says that only 349 votes were cast in favor of the bond issue, whereas 710, or two-thirds of the number registered, were necessary to success.

Ga., Lincoln.—Official: The proposed issue of \$9000 of courthouse bonds by Lincoln county was defeated at the recent election.

Ga., Oakhurst, P. O. Atlanta.—Oakhurst has voted to issue, it is reported, \$18,000 of sewer and water bonds.

Ga., Waycross.—On September 21, it is reported, an election will be held on \$100,000 of city school, fire-department and sewer-extension bonds.

Ky., Bowling Green.—Official: It is proposed to issue \$550,000 of 4 per cent. sewerage system 20-year bonds, and a vote will be taken November 5; denomination either \$1000 or \$500. Edward Smallhouse is City Clerk.

Ky., Grayson County.—The voters of Car-

ter county are reported contemplating an issue of \$40,000 of road bonds.

La., Gueydan.—The Pan-American Life Insurance Co. of New Orleans is reported to have purchased \$25,000 of drainage bonds of the White Lake district, near Gueydan.

Ky., Louisville.—Reported that an election on \$500,000 of school bonds will probably be held.

Ky., Mt. Vernon.—A report says that an election has been called in Rockcastle county on October 28 for \$100,000 of road bonds.

Ky., Williamsburg.—Official notice is published that an election will be held September 21 in Whitley county on \$300,000 of 6 per cent. 20-year public-road bonds. J. A. Standall is clerk of the County Court.

La., Baton Rouge.—An issue of \$300,000 of 5 per cent. drainage bonds, denomination \$1000, is reported proposed and a vote about to be taken in the Bayou Terre-Aux Boeufs Drainage District.

La., Crowley.—\$35,000 of municipal bonds are reported sold at par and interest to Hochler & Cummings of Toledo, O.

La., Houma.—An issue of \$142,000 of 5 per cent. drainage bonds of subdistrict No. 1 are reported authorized in the Upper Terrebonne Drainage District of Terrebonne parish.

Md., Baltimore.—The city administration contemplates the issue of \$2,000,000 of light-street bridge bonds and \$1,000,000 of electric-conduit bonds.

Miss., Brookhaven.—\$35,500 of water-works and electric-light bonds, 5 per cent., are reported sold at par to the Brookhaven Bank & Trust Co., which will also furnish the blank bonds.

Miss., Columbus.—I. H. Sykes, City Secretary and Treasurer, says that the City Attorney has given an opinion that the \$50,000 of bonds recently approved for the Columbus, Memphis & Gulf Railroad Co. were illegally voted. At any rate, they will not be available until the line is constructed to the proposed depot site.

Miss., Grenada.—Official: Bids will be received until 2 P. M. September 2 for \$45,000 of 5 per cent. 20-year road and bridge bonds of Grenada county; denomination \$500. G. E. Peacock, County Treasurer, is in charge.

Miss., Gulfport.—Official: Bids will be received October 7 for \$15,000 of 6 per cent. 25-year bonds of road district No. 3; denomination \$100 each. F. S. Hewes is clerk of the Board of Supervisors.

Miss., Natchez.—Official: Bids will be received until October 7 for \$150,000 of Adams county 5 per cent. 40-year road and bridge bonds; denomination \$500. E. H. Miles is County Treasurer.

Miss., Okolona.—Official: \$15,000 of 6 per cent. 20-year street-improvement bonds, denomination \$100, have been sold at par to the Merchants and Farmers' Bank of Okolona. J. H. Davis is City Clerk.

Miss., Pascagoula.—\$15,000 of 6 per cent. road bonds of Jackson county are reported sold to the Interstate Trust & Banking Co. of New Orleans.

Miss., Port Gibson.—Reported that bids will be received until September 2 for \$11,300 of loan warrants.

Miss., Raleigh.—Reported that the supervisors of Smith county will issue \$40,000 of bonds in September for good roads.

Miss., Raleigh.—The Supervisors of Smith county are reported to have ordered the issue of \$50,000 of courthouse bonds.

Miss., Tupelo.—Lee county, it is reported, will receive bids until September 3 for \$100,000 of 5½ per cent. road bonds.

Miss., Vicksburg.—\$100,000 of 5 per cent. street bonds are reported sold to O'Connor & Kahler of New York at 102.60.

Mo., Brunswick.—Official: \$8000 of 5 per cent. 20-year school-building bonds, denomination \$500, have been sold at par and accrued interest, but no fees, to the First National Bank and the Chariton County Exchange Bank, both of Brunswick, each taking \$4000. G. W. Rucker is secretary of the Board of Education.

Mo., Webb City.—An election is expected on August 29 to vote on \$17,000 of storm-sewer bonds.

Mo., West Plains.—Official: Bids are being received for \$30,000 of 5 per cent. 16-year road bonds; denomination \$500. Bids for less than par must be rejected. J. A. Shepherd is Clerk.

N. C., Elizabeth City.—Bids will be received at not less than par and interest until 2 P. M. September 10 for about \$60,000 of 6 per cent. drainage bonds of Camden Run Drainage District between Belcross and Shawboro in Camden and Currituck coun-

ties. Dr. S. W. Gregory of Elizabeth City is in charge.

N. C., Greensboro.—Official: Bids will be received until 2.30 P. M. September 16 for \$50,000 of 5 per cent. 20-year bonds for streets; also for \$10,000 for water and sewers and \$50,000 for a market-house; denomination \$1000. T. J. Murphy is Mayor. Further particulars will be found in the advertising columns.

N. C., Scotland Neck.—It is stated that the Legislature will be asked to authorize an issue of school bonds for Scotland Neck.

Okla., Blackwell.—An official is reported saying that George I. Gilbert of Oklahoma City has purchased the \$100,000 of gas-pipeline construction bonds voted August 1.

Okla., Eufaula.—\$40,000 of water-works bonds are reported to have been recently voted.

Okla., Tonkawa.—Official: \$20,000 of 6 per cent. 25-year water-extension bonds, denomination \$500, have been sold to Hochler & Cummings of Toledo, O.

Okla., Vinita.—\$20,000 of 5 per cent. 25-year sewer-extension bonds are reported voted.

Okla., Wagoner.—Official: On October 7 \$300,000 of 6 per cent. bonds of Verdigris Drainage District No. 1, Wagoner county, will be sold, bids to be filed not later than 5 P. M. October 5. J. E. McElroy is County Clerk. Further particulars will be found in the advertising columns.

S. C., Rock Hill.—Bids will be received until 8 P. M. September 25 by J. B. Johnson of the Public Works Commission for \$50,000 of 5 per cent. 40-year water-works bonds; denomination \$1000. Further particulars will be found in the advertising columns.

S. C., Summerville.—Bids will be received until August 29 by Legar Walker for \$5000 of 6 per cent. 20-year coupon bonds of school district No. 12; denomination \$500 each.

Tenn., Greenville.—Water bonds amounting to \$65,000 are reported authorized for the early construction of a water system.

Tenn., Memphis.—Preparations are reported to sell \$400,000 of 6 per cent. five-year front-foot assessment bonds.

Tex., Abilene.—Reported that bids will be received at any time for \$20,000 of 5 per cent. 10-40 optional street improvement bonds. P. L. Kirk is City Secretary.

Tex., Austin.—The city authorities have forwarded to the purchaser, the Commerce Trust Co. of Kansas City, \$750,000 of bonds which were bought on June 4 at a premium of \$1261.50 and interest.

Tex., Austin.—The Attorney-General has approved bonds thus: \$15,000 5 per cent. 20-40 Chambers county drainage bonds; \$6000 5 per cent. 10-20 Chambers county road district No. 1 bonds; \$750,000 of 5 per cent. 30-year Austin public improvement bonds, of which \$250,000 are for sewers, \$250,000 for streets, \$150,000 for schools, \$50,000 for city hospital, and \$50,000 for cemetery, the Commerce Trust Co. and others being the purchasers; \$19,000 of 5 per cent. 10-40 water-works bonds of Henrietta, Tex.; \$150,000 of Mexia District No. 4 road bonds; \$19,000 of 6 per cent. Port Arthur sidewalk bonds.

Tex., Bay City.—\$11,000 of street and \$2000 of water-extension and fire-plug bonds have been voted.

Tex., Bay City.—\$3500 of school bonds have been voted in Midfields District No. 10 and \$1500 worth in Turtle Bayou District No. 13.

Tex., Campbell.—\$12,000 of 40-year school-building bonds are reported voted.

Tex., Cleburne.—Official: An election will be held in Johnson county on September 28 to vote on \$175,000 of 5 per cent. 10-40-year courthouse bonds. J. R. Haynes is County Judge and B. B. Barnes County Clerk.

Tex., Cooper.—An election is reported called for September 7 to vote on school bonds.

Tex., Dallas.—The city has sold to C. E. Denison & Co. of Cleveland, O., \$300,000 of water-works bonds at a premium of \$866 and accrued interest from May 1; also to the Travelers' Insurance Co. of Hartford, Conn., \$100,000 of the same issue at a premium of \$870 and interest. These are 4½ per cents.

Tex., Ferris.—District No. 9 of Ellis county has voted \$100,000 of 5 per cent. 40-year road bonds.

Tex., Gonzales.—\$30,000 of school-building bonds are reported voted.

Tex., Hamilton.—\$8000 of additional water-works bonds are reported voted.

Tex., Hondo.—An election is reported proposed in Devise precinct of Medina county on \$40,000 of road bonds.

Tex., Meridian.—Reported that \$40,000 of road bonds of Valley Mills precinct in this (Bosque) county have been sold.

Tex., New Boston.—It has been decided to

vote on \$15,000 of water-works bonds within the next two or three months. Geo. W. George is Mayor.

Tex., Orange.—Reported that an election on \$20,000 of street-improvement bonds will be called.

Tex., Port Arthur.—Charles G. Gates, says a report, has purchased the \$400,000 of 5 per cent. 20-40 municipal bonds at par and interest, after bids for less than par were rejected; \$400,000 is for purchase of water and sewer systems, including construction of a pipe line and extensions; also for a fire station costing \$19,000 and a city hall \$20,000.

Tex., Richmond.—An election is called for September 24 in road district No. 4 on \$175,000 of road construction bonds.

Tex., San Angelo.—Official: Bids will be received until 10 A. M. September 10 for \$70,000 of 5 per cent. 10-40-year bridge bonds of Tom Green county; denomination \$1000. Oscar Frink is County Judge at San Angelo, Tex.

Tex., San Benito.—An election will be held October 1 in Cameron county on \$250,000 of road bonds.

Tex., Throckmorton.—Reported that \$20,000 of 5 per cent. school bonds have been sold; denomination \$1000.

Tex., Yoakum.—\$32,000 of sewer bonds have been authorized by a nearly unanimous vote. They are 5 per cent. 20-40 optional.

Va., Bridgewater.—Official: Bids will be received until noon September 23 for \$25,000 of water-works and sewer bonds, 5 per cent., 20-year, denomination \$500. H. C. Hale is Mayor and O. W. Wine is chairman of the finance committee. Further particulars will be found in the advertising columns.

Va., Chatham.—An election is called for September 3. It is reported, for \$100,000 of road bonds for the Dan River district of Pittsylvania county.

Va., Culpeper.—Local investors are reported to have purchased \$40,000 of 5 per cent. 7-year average bonds of Cataula Maj. latorial District of Culpeper county.

Va., Harrisonburg.—Ashby district of Rockingham county defeated at a special election a proposed issue of \$6000 of school-building bonds for Dayton.

Va., Manchester.—The Supervisors have authorized an election in Manchester district for \$35,000 of school-building bonds for Swansboro and Oak Grove.

Va., Warrenton.—The \$60,000 of road bonds were defeated at the special election recently held in Cedar Run district of Fauquier county.

Va., Wise.—A report from Cuckburn says that plans are progressing to hold an election soon in this (Wise) county for \$300,000 of additional road bonds, and an application to the Circuit Court is now being prepared and signed.

FINANCIAL NOTES.

Chatham county, Ga., has redeemed \$5000 of courthouse bonds.

The American Institute of Banking, at its annual convention held in Salt Lake City, is reported to have elected officers as follows: Byron W. Moser, St. Louis, president; Harvey Hatnes, Washington, D. C., vice-president; Harry K. Smalle, Chicago, secretary; Irvin L. Bourgeois, New Orleans, treasurer. Robert H. Bean, Boston, and Mrs. T. R. Durham, Chattanooga, members of executive council.

The Securities Co. of America, Birmingham, Ala., is reported to have amended its charter, increasing its authorized capital from \$50,000 to \$1,000,000. J. H. Williams of Jackson, Miss., is president; George Beach, first vice-president; J. D. Smith, second vice-president; S. J. Ensley, secretary and treasurer.

The Country Bankers' Association of North Carolina, which held its sixth annual convention at Wrightsville Beach, near Wilmington, elected officers for the ensuing year thus: President, Joseph A. Brown of Chadbourne; vice-president, A. J. McKinnon of Maxton; second vice-president, H. F. Pierce of Warsaw; secretary and treasurer, Lucy Williams of Maxton, the latter being re-elected.

The stockholders of the Commercial National Bank of Macon, Ga., have decided to increase its capital stock by issuing \$100,000 in new shares, making the total capital \$300,000. The surplus and net profits of the bank are also \$100,000, making it a \$400,000 concern. It was organized four years ago. E. Y. Mallary is president; Cecil Morgan and J. J. Cobb, vice-presidents; E. N. Lewis, cashier, and R. C. Souders, assistant cashier.

Classified Opportunities

MEN WANTED

EXCELLENT OPPORTUNITY for young practical foundryman with experience in manufacture of agricultural implements who has \$5000 to invest for an interest in a Southern plant; successful for 28 years; owner wishes to retire, but would be willing to stay as partner or form company. Address No. 1066, care Manufacturers Record.

WANTED—Traveling salesman to handle well-established line machinery, Southern States. Address Box No. 282, Charlotte, N.C.

WANTED—Utility man for large hardware business; must be above the average with eight or more years' experience. Address No. 1070, care Manufacturers Record.

WANTED—A first-class crusher man. Must be an educated and practical machinist. Must furnish reference, age and experience with application. Will pay good salary to the right man. Address No. 1110, care Manufacturers Record.

A BRICK AND CLAYWORKING INDUSTRY, located in a good town in the South, desires to add to its business, requiring additional capital. Reliable parties desiring to engage in an enterprise of this character please address, when full particulars will be furnished, No. 1067, care Manufacturers Record.

WANTED—County agents for the Sterling Vacuum Cleaner works like a carpet sweeper; big commissions; write today. The Sterling Vacuum Cleaner Co., Sebring, Ohio.

WANTED—Competent salesman for Southern and Western States to sell as a side line a hardware specialty article to jobbing trade on commission. Full information first letter. Jones Hasp & Lock Co., Warrenton, N. C.

WANTED—First-class engineer to take charge of Orange-Northeastern. Salary \$150 per month and increase as work progresses. Report ready for service at once. Want him to be interested in railroad company for certain amount. If you can comply with above terms, address Orange-Northeastern, 916 Texas Ave., Houston, Texas.

AGENCIES WANTED

WANTED—To represent in St. Louis Eastern factory manufacturing certain chemicals as a specialty; have storage facilities. Henry Heil Chemical Co., St. Louis, Mo.

A SUCCESSFUL SALESMAN, employed by a large corporation doing business out of New Orleans, wants an agency in building specialties or machinery; only A-1 proposition will be considered. Address No. 1102, care Manufacturers Record.

SITUATIONS WANTED

LAND INSPECTOR—Competent examination made and advice as to values anywhere in the South; highest references. Earl Stubbfield, Vaughan, Miss.

EMPLOYERS, you need a live, hustling young man. I can fill the bill. Engineering training, business and executive experience. Make me prove it. Address Box II, Corey, Ala.

YOUNG SOUTHERN MAN, cannot stand rigors of Northern winters, wants position in South; good stenographer and typewriter operator, but would prefer outdoor work; best of references. Address "J. G.", 1116 Fisher Bldg., Chicago, Ill.

A MECHANIC, now employed, will be open for position October 15th. Wish to connect with firm in Florida, with privilege of taking interest in firm after six months' service. I can handle any mechanical proposition; have had 15 years' experience on various kinds of mechanical work—mining, contracting, dredging; wish to locate near school and church; can furnish best of reference. Let me hear what you have to offer. Address No. 1111, care Manufacturers Record.

CIVIL ENGINEER open for engagement; 18 years' experience railway location, construction and reconstruction and general engineering; would like construction or maintenance; Southern location preferable; excellent references; have handled heavy work. Address Construction Engineer, No. 1107, care Manufacturers Record.

OFFICE MANAGER—Long business experience has fitted me to fill an important executive position; will not consider position unless remunerative. Address No. 1106, care Manufacturers Record.

WANTED—To represent a reliable manufacturer of roofing material, paints, etc., in State of Texas, with headquarters at Houston; have established trade and could guarantee results with right article and price; references as to ability, etc., cheerfully furnished. Address No. 1087, care Manufacturers Record.

MECHANICAL ENGINEER, now consulting engineer and sales manager for concern, will be open for position within 30 days; have large touring car to handle any special work in territory as salesman or on construction record. Address No. 1108, care Manufacturers Record.

Rate 20 cents per line per insertion. Minimum space accepted, four lines. Maximum space accepted, 24 lines. Allow seven words per line. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, whiskey or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year, as follows: 100 lines, 18c. per line; 300 lines 16c. per line; 500 lines or more, 15c. per line.

POSITION WANTED as foreman of steel erection on building or bridge; 14 years experience; will go anywhere; just completed erection of 12-story office building; best of references. Address No. 1104, care Manufacturers Record.

HAVING several years' experience working retail grocery trade, would like to do missionary work, commission basis, allowing orders to come through jobbers; can give best of reference. Address P. O. Box 412, Wilmington, N. C.

BANKS

THE PALMETTO NATIONAL BANK, Columbia, S. C., capital \$250,000, solicits accounts of banks, firms, corporations and individuals, either commercial or savings accounts.

HOTEL FOR LEASE

HOTEL "PICK-UP"—Well located on prominent corner city of Birmingham; long lease; fully equipped, with restaurant, cigar stand, etc. If you want a good hotel proposition, here it is. Don't have to buy the building or ground. Write me about this, Victor H. Smith, "The Real Estate Man," over Traders' Nat'l Bank, Birmingham, Ala.

EDUCATIONAL

RENSSELAER POLYTECHNIC INSTITUTE, TROY, N. Y.—Courses in Civil, Mechanical and Electrical Engineering, and General Science, leading to the degrees of Civil Engineer (C.E.), Mechanical Engineer (M.E.), Electrical Engineer (E.E.), and Bachelor of Science (B.S.). Special courses in engineering and science. Splendidly equipped new engineering laboratories. Send for catalogues to Registrar.

BUSINESS OPPORTUNITIES

SYNDICATES or capitalists able to finance or take an interest in a big suburban development proposition, with four miles of bay front, close to one of the most progressive and fastest-growing Gulf cities, will address No. 1093, care Manufacturers Record.

PECAN INFORMATION—We want to send you our pecan booklet. Learn proven facts about pecan investments and opportunities. Get right in the beginning, and there is no better or safer investment anywhere. Write Pensacola Seed & Nursery Co., Pensacola, Fla.

MASSACHUSETTS corporation manufacturing high-class line of machine tools, on market 33 years and universally used throughout the country, have an attractive opening for practical man that can invest \$25,000 and take an executive position with the company. Might consider locating elsewhere if conditions were found to be more advantageous to all interests concerned. Edward Wilbur, 125 Summer St., Boston, Mass.

LIST YOUR PROPERTY with us. We sell and trade real estate in all parts of the United States. Write your wants. Western Real Estate Exchange, Kiowa, Okla.

WE WANT INFORMATION concerning attractive real estate and industrial proposition in the South requiring loan or investment of \$10,000 or more. Communications confidential. Only bona fide propositions considered. Southern Realty & Development Corp., Norfolk, Va.

WANTED—A party with from \$20,000 to \$30,000 to purchase the controlling interest in a Wholesale and Retail Hardware and Builders' Supply Corporation. This business was established more than 100 years ago. The party desiring to sell his interest is an old bachelor, with ample means, and made his fortune out of the business and wishes to retire, but is willing to retain an interest in the business. This is an opportunity of a lifetime for the right party. Address P. O. Box 1061, Richmond, Va.

MANUFACTURERS — INVESTORS. — No quicker way to fortune than to market a good invention. We have them for sale. Write Adam Fisher Mfg. Co., 88-16, St. Louis, Mo.

FOR SALE—A controlling interest in a going hardware and mill supply house; good territory; very facility for handling business, including free track delivery; located in a manufacturing town in Middle Georgia. A good thing for a first-class man of experience and means. Reason for wishing to sell is age. Address No. 1105, care Manufacturers Record.

A BRICK AND CLAY INDUSTRY, located in a good town in the South, desires to extend its business and add to its force one who can take care of the sales and collections. This is a good sound proposition and will stand the closest inspection. Address No. 1096, care Manufacturers Record.

FLORIDA HOMESTEADS

FOR SALE—One of the most beautifully situated country homes in Florida, a hundred and ninety feet above sea level, on clear spring-fed lake, with views of hills for miles. Ideal for home or exclusive club. Twenty-one rooms, three baths, spacious halls and verandas. Within easy ride to Tampa and the Gulf. Owner, Box 3, Saint Leo, Pasco County, Florida.

VIRGINIA HOMESTEAD

FOR SALE—One of the finest estates in Eastern Virginia; 1187 acres; splendid mansion; ample outbuildings; well located. R. B. Chaffin & Co., Inc., Richmond, Va.

TECHNICAL SUPPLIES

TECHNICAL SUPPLIES—Manufacturers' agents. Drawing materials, mathematical, scientific and engineering instruments. Enterprise Typewriter & Supply Company, 316 N. Howard St., Baltimore, Md.

CANE SYRUP FOR SALE

100,000 GALLONS Georgia cane syrup for sale; want to sell to local dealers to avoid middleman who mixes with poor syrups, destroying delicious flavor of Georgia syrup; also, I want to buy outfit for syrup canning factory. E. F. Dollar, Whigham, Ga.

FACTORY AND WAREHOUSE SITES

FOR SALE—Good location for hardwood mill or furniture factory, or both; from 50,000,000 to 75,000,000 feet mixed hardwood, gum and cypress; railroad already built through timber; can be bought on good terms; low Eastern freight rates; located 30 miles from Jacksonville, Fla. Address No. 1099, care Manufacturers Record.

FOR SALE—143 acres, city Evansville; desirable factory site; rail and water transportation; cheap fuel; plenty labor; fast growing city; fine investment. H. A. Mann, Evansville, Indiana.

INDUSTRIES WANTED

MISCELLANEOUS

MANUFACTURERS, COME—Don't waste time in sparsely settled country. 8,000,000 people in century circle. Rail, water, advertising living advantages. Publicity Bureau, Cold Spring on Hudson, N. Y.

MANUFACTURERS AND WHOLESALERS: Your goods shipped from Salisbury will reach their destination from 24 to 72 hours earlier than from any other city in this section. Ask us why. Salisbury Industrial Club, Salisbury, N. C.

TITUSVILLE, FLORIDA (Pop. 1500, East Coast, Indian River District), offers exceptional opportunities for a machine and blacksmith shop, bottling works, garage, tannic-acid plant; box, crate and novelty works; cigar factory, laundry, millinery store and mattress factory. Address Secretary Board of Trade.

MANUFACTURERS AND HOMESEKERS—The latching of Norfolk, Va., hangs out for you. We need more brains and money and will make any reasonable inducements to get you here. Splendid climate, unexcelled transportation facilities and many other advantages make this an ideal location. Write to us and we will tell you more about it. Ballentine Realty Corporation, Norfolk, Virginia.

INDUSTRIAL PLANTS FOR SALE

MACHINE TOOL PLANT

FOR SALE—Old-established and prosperous machine-tool manufacturing business, located near Boston; product on market 27 years, and among the best in its line; modern plant and equipment; present owner getting along in years and wants to retire. Edward Wilbur, 125 Summer St., Boston, Mass.

HARNES-COLLAR FACTORY AND TANNERY

FOR SALE ON TERMS TO SUIT YOU—Harness-collar factory and tannery, located on the banks of the Tennessee River and N. C. & St. L. Ry., between Birmingham, Ala., and Chattanooga, Tenn.; doing nice business; very complete plant, steam heated, electric lighted; town population fifteen hundred. Write for attractive particulars to Alabama Harness Manufacturing Co., Guntersville, Ala.

VACUUM CLEANER MANUFACTURING PLANT

FOR SALE—Established power vacuum cleaner manufacturing business, consisting of ten complete machines, mounted on trucks, each equipped with 2-horse-power gasoline engine and hose; also parts for five more machines, including patterns, stock, material, good-will. Price \$1200 cash, f. o. b. Boston. Edward Wilbur, 125 Summer St., Boston, Mass.

MANUFACTURING PLANTS

FOR SALE—Splendid manufacturing plant, adaptable to any kind of business; lot 180x550 feet; all city improvements and utilities made and installed; main plant four-story brick, 33,000 square feet floor space; two-story brick ell adjoining, 11,250 square feet floor space; brick boiler and engine room with two 100 H. P. tubular boilers, 150 H. P. Corliss engine, 700-light dynamo, direct-connecting engine, shafting, ventilating system, etc.; corrugated-iron warehouse, 75x100 feet, 50 feet east of the main building; 50x62½ machine and cooper shop 50 feet from main building and warehouse; nice office building on corner of lot fronting street. Ground and improvements cost \$75,000 a few years ago to build; priced to us at \$50,000, with instructions to get offer. You cannot buy a better plant in a better city better located than this. Rush C. Watkins Co., Realty Bldg., Louisville, Ky.

SAWMILL, LOGGING AND R. R. EQUIPMENT

FOR SALE—Complete sawmill, logging and railroad equipment, now operating and making money. Forty to fifty million feet yellow pine stumpage. Twice this amount available in territory. Exceptionally good location. One of best towns in West Florida. Communicate with us if interested. Holmes County Abstract Co., Bonifay, Fla.

STONE QUARRY AND CRUSHING PLANT

STONE QUARRY AND CRUSHING PLANT for sale cheap. An exceptionally good proposition. Wake County, North Carolina. Address American Stone Co., Richmond, Va.

BAND MILL

FOR SALE—Near Nettleton, Ark., complete band mill on 30-acre site, with good tenant-houses, office building, etc., at ½ real value. Will consider your proposition. Foster Cohen, 133 Cooper St., Atlanta, Ga.

MINERAL AND TIMBER LANDS, WATER

POWERS AND MISCELLANEOUS PROPERTIES

FOR SALE—Farm of 2400 acres, 500 acres in cultivation; 3 miles of C. of Ga. Rwy.; contains a partially developed water-power for ordinary use; fine locality in Southeast Georgia. For full information address No. 1108, care Manufacturers Record.

FLORIDA FARMS, Orange Groves, Cut-over Lands for Colonizing, Truck Lands, Sawmill Locations, and City Business and Residential Properties. Bates-Dowling Co., Dyal-Upchurch Building, Jacksonville, Fla.

BEFORE YOU BUY LAND or make an investment in the South or Southwest send for a copy of my "Investor and Land Buyer" with list of splendid properties for sale; free on application. Jo A. Parker, Parma, Mo.

IF YOU WANT cypress lands, pine lands, cut-over tracts, colony tracts, ten and twenty-acre tracts, orange groves, truck farms, write to G. C. Rogan, Box 536, Lakeland, Fla. Fifteen years in the State.

REAL ESTATE—Large tract of land in suburb of Washington, D. C., for sale at special investment price; splendidly located for high-grade development. Price will justify holding for increased value from rapid development of west end of city. Send for particulars. American Land Co., Southern Bldg., Washington, D. C.

WATER-POWER PROPOSITION. — For sale cheap, 2600 acres, containing considerable timber, with an undeveloped water-power site; have an old earth dam 15 feet high at junction of two creeks; can increase height of dam to 25 feet and make pond of at least 1500 acres; balance of tract is not in pond and is high and dry. Fine location for electric-power plant or for factories of any kind; located in Southeast Georgia and fine farming locality. Full information upon request. Address No. 1076, care Manufacturers Record.

25,000 ACRES grazing land, 20 miles from railroad; no underbrush; fine grass; good water; some oak and pine timber. Price \$1.50 gold per acre. Large timber tracts, mineral and farm lands. Correspondence invited. W. P. Campbell, St. Joe, Ark.

CITY PROPERTIES

173 FEET front by 150 deep on Houston street, San Antonio, next block from Clower Building and one block from the big Rand building now going up, which will be used as a big department store; price \$1000 per front foot; will sell part. Kerr & Moore, Land Merchants, Muldoon, Texas.

IN THE DISTRICT OF COLUMBIA, 103 acres extremely desirable for subdivision, fronting on 16th street and the National Rock Creek Park, at a bargain price. Property immediately adjoining has been subdivided, and in a few months almost \$100,000 worth of lots have been sold at 20 cents to 50 cents a square foot. Full particulars upon request. Robert E. Heater, Colorado Building, Washington, D. C.

LANT
uum
sting
on
ower
for
erns,
rash,
anner

lant,
180x
ities
tory
two-
feet
oom
l. P.
con-
tem,
feet,
32 1/2
main
ling
and
o to
rue-
tter
han
dg.,

NT
ging
and
feet
unt
ood
lor-
red.
Fla.

T
NT
rop-
Ad-
.

on-
ood
real
on.
a.

ER

res
y.;
ver
ast
No.

ut-
ds,
nd
Co.,
i.

an
nd
er"
ree

ds,
nd
ack
ke-

in
at
ed
ill
om
ty.
o.,

or
er-
er-
ef
se
of
et
on
of
nd
on
pr-

on
nd
ce
ts,
u-

on
er
nd
ed
er
e,

03
n.
ai
p-
li-
00
to
nu
d.